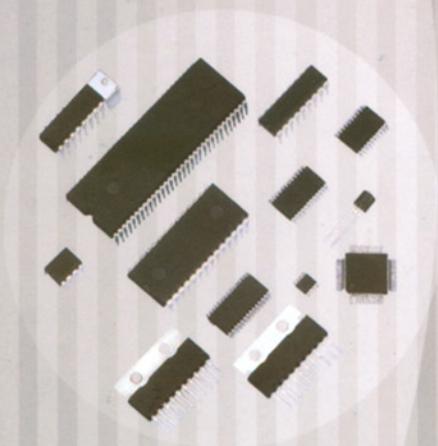




FULLING & CEIEC

- **PASSIVE COMPONENTS**
(SEMI-CONDUCTOR, RESISTOR, CAPACITOR, ETC.)
- **SWITCHES SERIES**



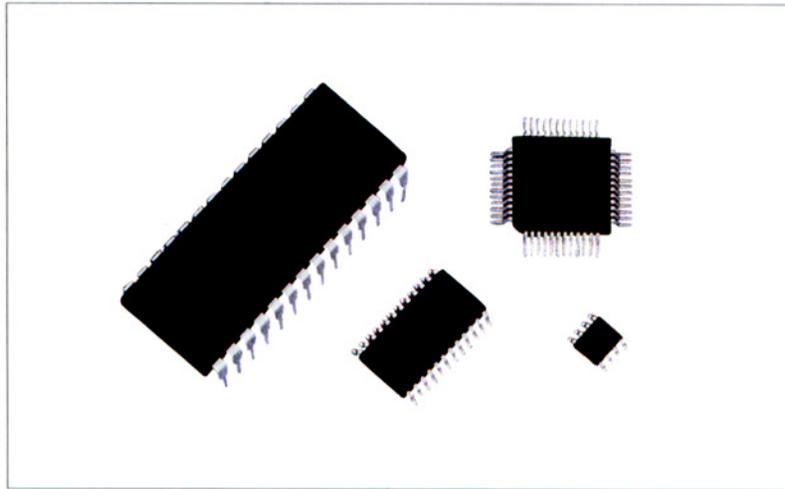


FULLING & CEIEC

- F&C -- ADVANCED QUALITY MANAGEMENT SYSTEM -- ISO9001:2000**
(EVALUATED BY SGS UNITED KINGDOM LTD. IN JULY, 2002)
- F&C -- MANUFACTURER AND EXPORTER IN CHANGZHOU, CHINA.**
(SPECIALIZED IN ELECTRONICS & TELECOM & NETWORKS.)
- F&C -- FOUNDED IN 1985 AS A LEADING ELECTRONIC EXPORTER.**
(ADVANCED EXPERIENCES IN ELECTRONICS AREA)
- F&C -- HOLDING A TRADING BRANCH IN HONG KONG.**
(FULLING ELECTRONIC (H.K.) LIMITED.)
- F&C -- HOLDING AN INDUSTRIAL BRANCH IN CHANGZHOU.**
(CHANGZHOU FULLING ELECTRONIC CO., LTD.)
- F&C -- SHAREHOLDER OF QUALITY FACTORY**
(MOTOR, DIODE, ACOUSTIC COMPONENTS, ETC.)
- F&C -- ANNUAL SALES IN 2002 -- OVER 25 MILLION U.S.DOLLARS**
(100% PRODUCTS EXPORT TO OVERSEAS MARKETS.)

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Infrared Remote Control Transmitter

This series of products provides a variety of features including flexible custom code option, wide key operating support, pin-to-pin compatibility solution, low standby consumption, wide range of operating supply voltage, etc. These ICs are universal applied to Audio/Video systems (CD, MD, VCD&DVD players), TV set and many other home electrical appliance.

Type No.	Device	Description	Package
FC-C-0001	SC3010	Infrared Remote Control Transmitter	SOP-28
FC-C-0002	SC50462	Infrared Remote Control Transmitter	SDIP-24 SOP-24
FC-C-0003	SC50560-001 SC50560-008	Infrared Remote Control Transmitter	SOP-20 DIP-20
FC-C-0004	SC6121-001 SC6121-002	Infrared Remote Control Transmitter	SOP-20
FC-C-0005	SC6122-001 SC6122-002	Infrared Remote Control Transmitter	SOP-24
FC-C-0006	SC6123	Infrared Remote Control Transmitter	DIP-14
FC-C-0007	SC7461	Infrared Remote Control Transmitter	SOP-24
FC-C-0008	SC7462	Infrared Remote Control Transmitter	SOP-20
FC-C-0009	SC8521	Infrared Remote Control Transmitter	SOP-20
FC-C-0010	SC9012	Infrared Remote Control Transmitter	SOP-20 (300Mil)
FC-C-0011	SC9028-021 SC9028-022 SC9028-023	Infrared Remote Control Transmitter	SOP-20 (300Mil)
FC-C-0012	SC9148B	Infrared Remote Control Transmitter	SOP-16 DIP-16
FC-C-0013	SC9149	Infrared Remote Control Transmitter	DIP-16
FC-C-0014	SC9150	Infrared Remote Control Transmitter	DIP-24
FC-C-0015	SC9243	Infrared Remote Control Transmitter	DIP-20 SOP-20
FC-C-0016	UTC20106	Remote Controller Preamplifier	SOP-8
FC-C-0017	UTC2303	Toy Radio control Actuator	SIP-9
FC-C-0018	UTC3276	Remote Controller Preamplifier	SOP-8

Fan Remote Controllers

The Fan Controller IC Series offers a variety of functions, such as timer, rhythm wind, natural wind and swinging head, and high performance and reliability are designed to satisfy every electronic fan needs. This series is also applied to air -clearer, anti-mosquito device and other home electrical appliance.

Type No.	Device	Description	Package
FC-C-0019	SC2128A	Fan Remote Control Decoder	DIP-20 DIP-22
FC-C-0020	SC2128C	Fan Remote Control Decoder	DIP-24
FC-C-0021	SC2268	Fan Remote Control Encoder	DIP-16
FC-C-0022	SC5104	Fan Remote Control Encoder	DIP-16
FC-C-0023	SC5105	Fan Remote Control Encoder	DIP-8 DIP-14
FC-C-0024	SC8206	Fan Remote Control Decoder	DIP-18 DIP-20
FC-C-0025	SC8207	Fan Remote Control Decoder	DIP-20 DIP-18
FC-C-0026	SC8208	Fan Remote Control Decoder	DIP-16

Remote Control Encoder/Decoder

The encoder/decoder ICs are ideal for auto/motorcycle security systems, home/office security systems remote door-bell and other related applications.

Type No.	Device	Description	Package
FC-C-0027	SC15D/15E	Remote Control Encoder/Decoder	DIP-18
FC-C-0028	SC5260	Remote Control Encoder/Decoder	DIP-16
FC-C-0029	SC5262	Remote Control Encoder/Decoder	DIP-18 SOP-20
FC-C-0030	SC5272	Remote Control Encoder/Decoder	DIP-18 SOP-20
FC-C-0031	SC9314	Encoder For Remote Control System	DIP-14

Radio/Audio ICs

The audio controller IC series consists of AM/FM radio ICs, Electronic Volume Controller ICS, Headphone Driver ICs, Audio Processor ICs, Preset Equalizer/3D Effect ICs and etc. They mainly focus on Radio, Home Music Center, Car Audio, Multi-media Systems and other audio products.

Type No.	Device	Description	Package
FC-C-0032	SA1088	FM Receiver Circuit for Battery Supply	SOP-16
FC-C-0033	SC1308L	Class AB Stereo headphone driver	SOP-8
FC-C-0034	SC3610	AM/FM Frequency and Clock Display Driver	QFP-44
FC-C-0035	SC5387	3D Equalizer IC	DIP-8
FC-C-0036	SC5388	5-mode Preset Equalizer IC	SDIP-24 SOP-24
FC-C-0037	SC5389	5-mode Preset Equalizer IC with Bass Booster & 3D Effects	SDIP-24 SOP-24
FC-C-0038	SC62446	6 Channels Electric Volume Controller with Tone Control	QFP-44 SDIP-42
FC-C-0039	SC6579	Radio Date System(RDS) Demodulator	DIP-16 SOP-16
FC-C-0040	SC72131	AM/FM Phase Locked Loop (PLL) Frequency Synthesizer	SDIP-22
FC-C-0041	SC7313	Digital Controlled Stereo Audio Processor with Loudness	SOP-28
FC-C-0042	SC9153	Electronics Volume Controller	DIP-16
FC-C-0043	SC9256	Phase Locked Loop(PLL) For Digital Tuning System(DTS)	SOP-16 DIP-16
FC-C-0044	SC9257	Phase Locked Loop(PLL) For Digital Tuning System(DTS)	SOP-16 DIP-16
FC-C-0045	SC9235	Electronics Volume Controller	SOP-16 DIP-16
FC-C-0046	SC9318-033	1-CHIP Digital Tuning System (DTS) Microcontroller for Portable Radio	QFP-64 LQFP-64
FC-C-0047	SA8507	Automatic Gain Controller for Dynamic Range Compression and Expansion	DIP-20 SOP-20



Type No.	Device	Description	Package
FC-C-0048	UTC1316	Dual Tone Power Amplifier	DIP-14H
FC-C-0049	UTC1600	Single Band AM Radio	SIP-9
FC-C-0050	UTC1800	AM/FM Radio IC	DIP-22
FC-C-0051	UTC2003	10W Car Radio Audio power Amplifier	TO-220B
FC-C-0052	UTC2024	Dual Tone Power Amplifier	SIP-10H
FC-C-0053	UTC2025	Dual Tone Power Amplifier	DIP-16
FC-C-0054	UTC2030	Tone Power Amplifier	TO-220B
FC-C-0055	UTC2221	Dual Low Noise Equalizer	SIP-8
FC-C-0056	UTC22241	Dual Balanced Preamplifier(with ALC)	SIP-9
FC-C-0057	UTC22421	AM 1-chip Radio	DIP-16
FC-C-0058	UTC2284	5-Dots LED's Driver	SIP-9
FC-C-0059	UTC2822	Dual Tone Power Amplifier	DIP-8
FC-C-0060	UTC3361	Low-Power Narrow-Band FM IF IC	SOP-16 DIP-16
FC-C-0061	UTC6220	DC Motor Speed Controller for Tape Recorder	DIP-8
FC-C-0062	UTC6650	DC Motor Speed Controller for Tape Recorder	DIP-8
FC-C-0063	UTC6651	DC Motor Speed Controller for Tape Recorder	TO-126B
FC-C-0064	UTC665F	1-Chip Stereo Radio IC with Motor Speed Controller	SOP-28
FC-C-0065	UTC7112	Audio Power Amplifier	SIP-9
FC-C-0066	UTC7217	5.8W Audio Power Amplifier	SIP-10H
FC-C-0067	UTC7312	Audio preamplifier	DIP-16
FC-C-0068	UTC7316	Dual Recording/Playback Preamplifier	DIP-16
FC-C-0069	UTC7342AP	FM Stereo PLL Decoding IC	SIP-9
FC-C-0070	UTC7343AP	FM Stereo PLL Decoding IC	SIP-9
FC-C-0071	UTC7358P	3V FM Front End IC	SIP-9
FC-C-0072	UTC7368	Audio Power Amplifier	SIP-9
FC-C-0073	UTC7613AP	AM/FM Radio IC(with power amplifier)	DIP-16
FC-C-0074	UTC7640AP	IF Amplifier and Detector of AM/FM Radio	DIP-16
FC-C-0075	UTC7642	AM Single Chip Radio IC	TO-92
FC-C-0076	UTC7668BP	Dual Balanced Preamplifier(with ALC)	DIP-16
FC-C-0077	UTC7738P	Preamplifier and Power Amplifier	DIP-16
FC-C-0078	UTC7784P	Dual Preamplifier for Autoreverse	DIP-16
FC-C-0079	UTC810	7W Audio Amplifier	HDIP-12
FC-C-0080	UTC8227P	Lower Frequency Power Amplifier	HDIP-12

Toy Car Controller

The series of multi-functions remote control toy cars ICs that have the features of reliability and stability for controlling, They can be satisfied with the demand of all kinds of remote control toy car.

Type No.	Device	Description	Package
FC-C-0081	SC-TX-2	Remote Control Transmitter with Five Functions	DIP-14
FC-C-0082	SC-RX-2	Remote Control Receiver with Five Functions	DIP-16
FC-C-0083	SC-TX-2B	Remote Control Transmitter with Five Functions	DIP-14
FC-C-0084	SC-RX-2B	Remote Control Receiver with Five Functions	DIP-16
FC-C-0085	SC-RX-3	Remote Control Receiver with Two Functions	DIP-16
FC-C-0086	SC-TX-5B	Remote Control Transmitter with Nine Functions	DIP-16
FC-C-0087	SC-RX-5B	Remote Control Receiver with Nine Functions	DIP-22
FC-C-0088	SC-TX-5C	Remote Control Transmitter with Five Functions	DIP-16
FC-C-0089	SC-RX-5C	Remote Control Receiver with Five Functions	DIP-16
FC-C-0090	SC-TX-6B	Remote Control Transmitter with Seven Functions	DIP-16
FC-C-0091	SC-RX-6B	Remote Control Receiver with Seven Functions	DIP-18
FC-C-0092	SC-RX-7	Digital Proportional Remote controller	DIP-16

Telephone Dialer, FSK/DTMF Decoder

Tone/pulse dialer ICs and FSK/DTMF decoder ICs can be applied in general telephone sets, Call-ID telephone sets and digital telephone answering machines.

Type No.	Device	Description	Package
FC-C-0093	SC88E43	Extended Voltage Calling Number Identification IC	DIP-24 SOP-24
FC-C-0094	SC9102	Tone/Pulse Dialer with Redial Function	DIP-18
FC-C-0095	SC91214 SC91215	Tone/Pulse Dialer with Redial Function	DIP-16 DIP-18 DIP-20
FC-C-0096	SC91312	Tone/Pulse Dialer with Redial Function	DIP-18
FC-C-0097	SC91415CK	Tone/Pulse Switchable Dialer with LCD Interface and Dualtone Melody	DIP-18
FC-C-0098	SC91650	13 Memory Tone/Pulse Dialer with Redial Save Handfree & Hold Function	DIP-18 DIP-22
FC-C-0099	SC91710A SC91710B	Tone/Pulse Switchable Dialer with Handfree Function	DIP-16 DIP-18
FC-C-0100	SC9200	DTMF Generator IC with uC Interface	DIP-8 DIP-14 SOP-8
FC-C-0101	SC9270D	DTMF receiver IC with Band-split Filter and Digital Decoder functions	DIP-18
FC-C-0102	SC9302	1-memory/2-memory Tone/pulse Dialer	DIP-16 DIP-18 DIP-20 SDIP-24
FC-C-0103	SC9315BV	15-Memory Tone/Pulse Dialers with Volume Switches	DIP-24
FC-C-0104	UTC1062 UTC1062A	Low Voltage Speech Transmission Circuit with Dialer Interface	DIP-16
FC-C-0105	UTC1240 UTC1240A	Dual-Tone Ringers for Electronic Telephone	DIP-8
FC-C-0106	UTC2140	Telephone Tone Ringer	DIP-8
FC-C-0107	UTC34018	Voice Switched Speakerphone Circuit	DIP-28
FC-C-0108	UTC34118	Voice Switched Speakerphone Circuit	DIP-28
FC-C-0109	UTC34119	Low Power Audio Amplifier	DIP-8
FC-C-0110	UTC386	Low Voltage Tone Power Amplifier	DIP-8
FC-C-0111	UTC820	Single Tone Power Amplifier	DIP-8
FC-C-0112	UTC8602	Low Voltage Audio Power Amplifier	DIP-8
FC-C-0113	UTC9106/2411/31002	Telephone Tone Ringer	DIP-8

Computer Peripherals ICs

The computer peripherals products consist of mouse series and keyboard series, which presently focus mainly on kinds of interface standards, such as serial interface, PS/2 interface and USB interface. Also We can provide keyboard ICs with special code based the requirement of the custom .

Type No.	Device	Description	Package
FC-C-0114	SC6868	Supporting PC AT and PS/2 Keyboard Encoder MCU	Die
FC-C-0115	SC83702B	All-in-one Serial Interface Mouse Controller	DIP-16
FC-C-0116	SC84502	P/S2 Mouse Controller	DIP-16 DIP-14
FC-C-0117	SC84510	P/S2 Scrolling Mouse Controller	DIP-16
FC-C-0118	SC84520	Serial and PS/2 2-in-one Scrolling Mouse Controller	DIP-16
FC-C-0119	SC83053	Supporting PC AT and PS/2 Keyboard Encoder MCU	Die
FC-C-0120	SC85603	USB+PS2 Mouse Controller	DIP-18

Clock ICs

This kind of ICs is used in the field of electronic watch ,electronic clock and time controlled radio.

Type No.	Device	Description	Package
FC-C-0121	SC3788	6 Functions Clock Driver	Die
FC- C-0122	SC6802	Electroluminescence Lamp(EL) Driver	Die
FC-C-0123	SC8560	Digital Alarm Clock with LED Driver	SDIP-28
FC-C-0124	SC8562	Digital Alarm Clock with LED Driver	SDIP-28

Meter ICs

This series of products principally consist of electrical energy meter ICs and digital multi-meter ICs and is ideal selection of energy meter and multi-meter manufacture because of their high precision and low price.

Type	Device	Description	Package
FC-C-0125	SC3003	Electronics Ammeter Circuit	DIP-20
FC-C-0126	SC7001Q	3 ³ / ₄ Digit 3260 Count	QFP-80
FC-C-0127	SC7106	3 ¹ / ₂ Digit, LCD/LED Display, A/D Converters	DIP-40
FC-C-0128	SC8123	Electronics Ammeter Circuit	SSOP-24 SDIP-24

LCD/VFD Controller/Driver

This series of LCD and VFD display controller/driver ICs which have low power consumption ,low cost and high performance features , these devices ideally used in telephone sets, car audio, VCD/DVD players and other electronic equipment with LCD and VFD displays.

Type No.	Device	Description	Package
FC-C-0129	SC16232	RAM Mapping 128 pattern LCD Driver and Controller with I/O Interface	Die
FC-C-0130	SC16311	1/8 to 1/16 Duty FIP(VFD) Controller/Driver	QFP-52
FC-C-0131	SC16312	1/4 to 1/11 Duty FIP(VFD) Controller/Driver	QFP-44 LQFP-44
FC-C-0132	SC230	1/3 Duty General-Purpose 32x3 LCD Driver	QFP-64
FC-C-0133	SC75823	1/3 Duty General-Purpose LCD Driver	QFP-64

Power Management ICs

The power management products consist of Li-ion battery protector ICs, DC-DC converter ICs and low voltage drop three terminal regulator ICs. These ICs can be used in the field of battery-powered communication and audio/video equipment.

Type No.	Device	Description	Package
FC-C-0134	SC1030	3.0V Three Terminal Low Voltage Regulator	TO-92
FC-C-0135	SC1033	3.3V Three Terminal Low Voltage Regulator	TO-92
FC-C-0136	SC1036	3.6V Three Terminal Low Voltage Regulator	TO-92
FC-C-0137	SC1045	4.5V Three Terminal Low Voltage Regulator	TO-92
FC-C-0138	SC1050	5.0V Three Terminal Low Voltage Regulator	TO-92
FC-C-0139	SC431XX	PFM Controlled Set-up DC/DC Converter	SOT-89
FC-C-0140	SC451XX	Li+one-cell Battery over-charge/discharge and excess load current	SOT-23

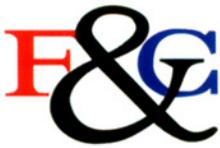
Voltage Regulator

Type No.	Device	Description	Package
FC-C-0141	UTC278R05	Controllable Low Dropout Voltage Regulator	TO-220F
FC-C-0142	UTC2950	150mA Low Dropout Voltage Regulator	TO-92
FC-C-0143	UTC2951	150mA Low Dropout and Adjustable output Voltage Regulator	SOP-8
FC-C-0144	UTC317	3-Terminal 1.5A Positive Adjustable Voltage Regulator	TO-220
FC-C-0145	UTC431	Programmable Precision References	TO-92 SOP-8
FC-C-0146	UTC5031	3-Terminal 3.0A Positive Adjustable Voltage Regulator	TO-220
FC-C-0147	UTC5032	3-Terminal 5.0A Positive Adjustable Voltage Regulator	TO-220
FC-C-0148	UTC5033	3-Terminal 7.5A Positive Adjustable Voltage Regulator	TO-220
FC-C-0149	UTC723	Adjustable Voltage Regulator	DIP-14
FC-C-0150	UTC78LXX	3-Terminal 0.1A Positive Voltage Regulator	TO-92
FC-C-0151	UTC78XX	3-Terminal 1.0A Positive Voltage Regulator	TO-220
FC-C-0152	UTC79LXX	3-Terminal 0.1A Negative Voltage Regulator	TO-92
FC-C-0153	UTC79XX	3-Terminal 1.0A Negative Voltage Regulator	TO-220
FC-C-0154	UTC34063	DC-DC Converter Controller	DIP-8
FC-C-0155	UTC3525	Voltage-Mode PWM Controller	DIP-16
FC-C-0156	UTC3842 UTC3843	Current-Mode PWM Controller	DIP-8
FC-C-0157	UTC494	Voltage-Mode PWM Controller	DIP-16

Calculator ICs

This series of ICs including 8digit 10/12 digit normal calculator, 10 digit scientific calculator and 10-digit scientific calculator with matrix LCD driver.

Type No.	Device	Description	Package
FC-C-0158	SC3414	12 Digit Calculator	Die
FC-C-0159	SC3423	Scientific 10- Digits LCD Calculator	Die
FC-C-0160	SC3442	8 Bit Calculator Drive	Die
FC-C-0161	SC3445	10-Digit Scientific Calculator	Die
FC-C-0162	SC3446	10-Digit Scientific Calculator with Matrix LCD Driver	Die

**Xmas Light Controllers & Melody ICs**

This kind of ICs is used in the field of Xmas light controllers and all kinds of toy.

Type No.	Device	Function Description	Package
FC-C-0163	SC3061	8 Functions Xmas Light Controller	Die
FC-C-0164	SC3064	8 Functions Xmas Light Controller	Die
FC-C-0165	SC3065	2 Light Xmas Light Controller with single Melody	Die
FC-C-0166	SC3066	25 Tunes Dual Tone Melody Xmas Light Controller	Die
FC-C-0167	SC3067	12 Tunes Single Tone Melody Xmas Light Controller	Die
FC-C-0168	SC3160	Dual Tone Melody Xmas Light Controller	Die
FC-C-0169	SC31304	256 Notes Three Songs, Dual Tone Melody	Die

Driver For CD/DVD Servo Motor

This several kinds of motor driver ICs in order to satisfy the need of CD, VCD, DVD, CD-ROM manufactories.

Type No.	Device	Description	Package
FC-C-0170	SA5685	5 Channel Driver for CD/CD-ROM	HSOP-28
FC-C-0171	SA5694	Actuator Driver with Current Feedback for CD-ROM/DVD	HSOP-28
FC-C-0172	SA6392	4 Channel Motor Driver	HSOP-28
FC-C-0173	SA9258	4-Channel BTL Driver for CD Players	HSOP-28
FC-C-0174	SA6849	3-Phase Spindle Motor Driver for CD-ROMs	HSOP-28
FC-C-0175	SA6664	3-Phase Spindle Motor Driver for CD-ROMs	HSOP-28
FC-C-0176	SA5901	4-ch Motor Driver and Power Controller IC for Portable CD-player	QFP-44

Voice Recording & Playback ICs

Type No.	Device	Description	Package
FC-C-0177	SC33100	Easy Sound Ting Controller-Based Sound Processor	Die
FC-C-0178	SC9831	Voice Recording/Play-Back IC	Die

Type No.	Device	Description	Package
Television Sets			
FC-C-0179	UTC1031	Vertical Deflection System	SIP-10H
FC-C-0180	UTC1353	Sound Processor for B/W TV	DIP-14H
FC-C-0181	UTC1366	Video IF processor for B/W TV	DIP-14H
FC-C-0182	UTC1379	Horizontal and Vertical Deflection System for B/W TV and Small Screen Color TV	DIP-16H
FC-C-0183	UTC2611	TV Sound Power Amplifier	SIP-9H
FC-C-0184	UTC5151	1 Chip Television Circuit	DIP-28
FC-C-0185	UTC54573	Tuner Band Decoder/Driver	SIP-8
FC-C-0186	UTC7176	TV Sound IF Amplifier	DIP-14
FC-C-0187	UTC7609	Horizontal and Vertical Deflection System	DIP-16
FC-C-0188	UTC7611AP	Video IF Processor for B/W TV	DIP-16
FC-C-0189	UTC7678	Video and Sound Signal Processor for B/W TV	DIP-16
Timer			
FC-C-0190	UTC555	Single Timer	DIP-8
FC-C-0191	UTC556	Dual Timer	DIP-14
FC-C-0192	UTC558	Quad Timer	DIP-16
Comparator			
FC-C-0193	UTC339	Quad Differential Comparator	DIP-14
FC-C-0194	UTC393	Dual Differential Comparator	DIP-8
Operational Amplifiers			
FC-C-0195	UTC074	Low Noise Quad-JFET operational amplifier	DIP-14
FC-C-0196	UTC324	Quad Operational Amplifier	DIP-14
FC-C-0197	UTC358	Dual Operational Amplifier	DIP-8
FC-C-0198	UTC4558	Dual Operational Amplifier	DIP-8
Power Factor Controller			
FC-C-0199	UTC7514	Power Factor Controller	DIP-8
FC-C-0200	UTC7524	Power Factor Controller	DIP-8
Transistor Array			
FC-C-0201	ULN2003	Darlington Transistor array	DIP-16
Miscellaneous ICs			
FC-C-0202	SC1350	Step Counter	Die
FC-C-0203	SC3071	Light Controller	DIP-8
FC-C-0204	SC3072	Passive Infrared (PIR) Controller	DIP-16
FC-C-0205	SC3090	LED Light Controller	Die

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SC53C SERIES 4 BIT MCU RESOURCE TABLE

This serial of 4 bit MCU have the character in strong function , good reliability and effective function of anti-jamming, so they can be used in air-conditioner, refrigerator, microwave oven and other home electrical appliance.

Mask Period:5 Weeks

Type No.	FC-C-0206		FC-C-0207		FC-C-0208		FC-C-0209		FC-C-0210		
P/N	SC53C0508		SC53C0308		SC53C0416		SC53C0216		SC53C0108		
Resource	SC53C0508		SC53C0308		SC53C0416		SC53C0216		SC53C0108		
ROM (BYTE)	8192		8192		16384		16384		8192		
RAM (NIBBLE)	512		512		1024		768		512		
General-purpose Register	(4bit x 8) x4 or (8bit x 4)x4										
Cycle of the Instruction	0.95μS, 1.91μS, 3.81μS, 15.3μS (main system clock operating, 4.19MHz) 0.67μS, 1.33μS, 2.67μS, 10.7μS (main system clock operating, 6.0MHz) 122us (subsystem clock operating , 32.768KHz)										
I/O	INPUT	34	8	32	12	40	8	44	8	32	8
	I/O		18		12		24		28		20
	Open-drain I/O		8		8		8		8		4
LCD Driver	None				24/28/32 segment		12/16/20 segment		16/20/24 segment		
Timer	Two 8 bit timer One basic interval timer (also as watchdog timer) One watch timer				Three 8 bit timer (also can be used 16 bit timer) One basic interval timer (also as watchdog timer) One watch timer						
Serial Interface	3-wire serial I/O mode (can be select MSB or LSB) 2-wire serial I/O mode										
A/D Converter	None		8bit ,8 channel		None		8bit, 8 channel		None		
Vectored Interrupt	Internal: 4 External: 3		Internal: 4 External: 3		Internal: 5 External: 3		Internal: 5 External: 3		Internal: 5 External: 3		
Test Interrupt	Internal: 1 External: 1										
Supply Voltage	1.8V to 5.5V										
Package	SDIP-42 QFP-44		SDIP-42 QFP-44		QFP-80		QFP-80		QFP-64 QFP-48		

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SC63C SERIES 4 BIT MCU RESOURCE TABLE

This serial of 4 bit MCU have the character in multiform functions, good reliability and applicability, so they can be used in controlling the home electrical equipment such as telephone sets, audio appliance, etc.

Mask period:5 Weeks

Type No.	FC-C-0211	FC-C-0212	FC-C-0213	FC-C-0214
P/N	SC63C0116*	SC63C0204	SC63C0316*	SC63C0608
Resource				
Supply Voltage (V)	2.7~6.0	1.8~5.5	2.5~3.5 or 4.5~5.5	1.8~5.5
ROM (bytes)	16K	4K	16K	8K
RAM (bytes)	1024	288	512	5228
I/O port	23	24	24	39
Interrupt	External:4 Internal:4	External:2 Internal:2	External:4 Internal:4	External:2 Internal:3
Timer/Counter	BT/WT/8T	BT/WT/8T	BT/WT/8T	BT/WT/WDT
SIO	8bit	N/A	8bit	N/A
LCD Driver	32SEG X 4COM	32SEG X 4COM	28SEG X 4COM	60SEG X 9COM
A/D Converter	8bit x 4 channel	N/A	8bit x 4 channel	N/A
PWM	8bit x 6 channel	N/A	N/A	N/A
PLL	AM:30MHz FM:200MHz	N/A	AM:30MHz FM:110MHz	N/A
Maximum OSC	4.5MHz	6MHz	4.5MHz	6MHz
Package	QFP-100	QFP-64	QFP-80	QFP-100

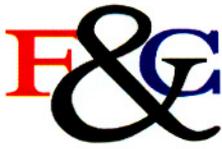
Note: product mark with "*" indicate in designing

SC73C SERIES 4 BIT MCU RESOURCE TABLE

This serial of 4 bit MCU have the feature in low power consumption, low price, flexible application, so they can be used in remote controller for home electrical appliance.

Mask period:5 Weeks

Type No.	FC-C-0215	FC-C-0216	FC-C-0217	FC-C-0218	FC-C-0219	FC-C-0220
P/N	SC73C0101	SC73C0202	SC73C0302	SC73C1102	SC73C1202	SC73C0540
Resource						
ROM	768Bytes,include 16bits code table (duplicate)	0.5K bytes program space+1k bytes code table	1K bytes program space+1k bytes code table (duplicate)	0.5k bytes program space+1k bytes code table	2.0k bytes	8k bytes program space+32k bytes code table
RAM	16*4 bytes	16*4 bytes	16*4 bytes	16*4 bytes	16*4 bits	96*4 bits
Supply Voltage	2.0~4.0V	2.0~4.0V	2.0~4.0V	2.0~4.0V	2.0~4.0V	2.0~4.0V
Length of Instruction	8 bits	8 bits	9 bits	8 bits	8 bits	9 bits
Number of Instruction	44	45	47	45	45	62
Power-on Reset	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
WDT	1	1	1	1	1	1
Counter	1	1	1	1	1	1
Oscillation Frequency	400K~2MHz	400K~2MHz	400K~2MHz	4M/455Hz	4M/455Hz	4M/455Hz
Carrier	1/12fosc, 1/3 duty	1/12fosc, 1/3 duty	1/12fosc, 1/3 duty	1/12fosc or 1/96fosc, 1/2 or 1/3 duty	1/12fosc or 1/96fosc, 1/2 or 1/3 duty	1/12fosc or 1/96fosc, 1/2 or 1/3 duty
I/O Port	8	8	8	8	8	8
INPUT	4	4	4	4	4	8
OUTPUT(included LED display drive pin)	4	4	8	4	4	8
RAM Direct Addressing	Support	Nonsupport	Nonsupport	Nonsupport	Nonsupport	Support
Package	20 pin	20 pin	20 pin or 24pin	20 pin	20 pin	20,24,28 pin



SC58C SERIES 8 BIT MCU RESOURCE TABLE

This serial of 8 bit MCU have multiform functions, good reliability and applicability , so they can be used in controlling the home electrical equipment such as air-conditioner, audio appliance, etc.

Mask period: 5 Weeks

Type No.	FC-C-0221	FC-C-0222	FC-C-0223
P/N			
Resource	SC58C0116	SC58C0208*	SC58C0332*
Supply Voltage (V)	2.7~5.5		
ROM (bytes)	16k	32k	32k
RAM (bytes)	512	1.5k	1K
LCD Driver	N/A	N/A	1/4,1/3,1/2 duty,32SEG X 4COM
VFT Driver	N/A	16 SEG x 16 DIG	N/A
High Speed Serial Output	✓	✓	N/A
SIO	2	1	2
A/D Converter	8bit x 8	6bit x 6	8bit x 8
Timer/Counter	16bit x 2 8bit x 2		
WDT	✓		
Interrupt	Internal:8 External:6	Internal:8 External:6	Internal:9 External:5
I/O Port	35	73	52
Minimum Instruction Execution Time	0.5μs (8MHz) 122μs (32768Hz)		
Package	SDIP-42	QFP-80	LQFP-80
Mask Period	6 weeks	6 weeks	6 weeks

Note: product mark with "*" indicate in designing

SC68C SERIES 8 BIT MCU RESOURCE TABLE

This serial of 8 bit MCU have multiform functions, good reliability and applicability , so they can be used in controlling the simple electrical equipment .

Mask period: 5 Weeks

Type No.	FC-C-0224	FC-C-0225	FC-C-0226	FC-C-0227
P/N				
Resource	SC68C0101*	SC68C0202	SC68C0301*	SC68C0401*
Supply Voltage (V)	2.3~6.3			
Operating Frequency(Hz)	4M~20M			
ROM (bytes)	1K	2K	512	512
RAM (bytes)	25 (general-purpose) 7 (special)	72 (general-purpose) 8 (special)	24 (general-purpose) 8 (special)	25 (general-purpose) 7 (special)
Length of Instruction (bits)	14	14	14	14
Number of Instruction	36	36	36	36
Stack	2 level	2 level	2 level	2 level
Pin No.	18	28	28	18
WDT	WDT with RC oscillator			
Power-on Reset	Built-in	Built-in	Built-in	Built-in
Mask Period	4 weeks	4 weeks	4 weeks	4 weeks

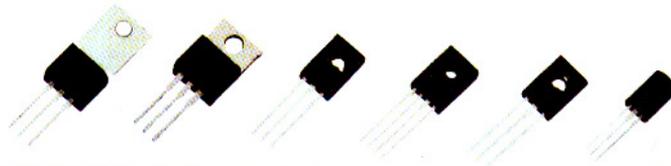
Note: product mark with "*" indicate in designing

SC3080 SERIES 8 BIT MCU RESOURCE TABLE

This series of 8 bit MCU have strong functions, high performance and low price. And they can be used in Timers, Calculators, Calendar, etc.

Mask period: 5 Weeks

Type No.	FC-C-0228	FC-C-0229	FC-C-0230	FC-C-0231
P/N	SC3080	SC3081	SC3082	SC3083
Resource				
ROM(bytes)	7k	30k	7.5k	4k
RAM(bytes)	96	128+2K Data	128	64
Supply Voltage (V)	2.4~5.5	2.4~5.5	1.2~1.7	1.2~1.7
Length of Instruction (bits)	8	8	8	8
Number of Instruction	67	67	67	67
Power-on Reset	Built-in	Built-in	Built-in	Built-in
Timer/Counter	1 (12-bits)	1 (8-bits), 1 WDT	1 (8-bits)	1 (8-bits)
LCD Driver (dot)	32 x 4	60 x 8 ,60 x 6,48 x 8,48 x 6	28~32 x 4~5	16~19 x 4
Oscillation Frequency	RC OSC 32.768KHz crystal	RC OSC 32.768KHz crystal	RC OSC 32.768KHz crystal	RC OSC 32.768KHz crystal
Interrupt	Timer, 2Hz, LCD interrupt, 28Hz, 2KHz, external interrupt	—	Timer, T16Hz, T2Hz, 128Hz, 2kHz, external interrupt	—
I/O port	2 (general-purpose) 4 (special)	8 (general-purpose)	12 (general-purpose)	10 (general-purpose)
Package	60 pin Die	83 pin Die	58 pin Die	43 pin Die



TRANSISTORS

TRANSISTOR

NO.	ITEM	NO.	ITEM	NO.	ITEM	NO.	ITEM	NO.	ITEM
1	7805	56	2SB688	111	2SD1650	166	BDX96	221	BUW13
2	7812	57	2SB772	112	2SD1651	167	BDY10	222	BUW13A
3	2N3055	58	2SB816	113	2SD1710	168	BDY25	223	BUX48
4	2N3442	59	2SB817	114	2SD1877	169	BDY44	224	BUX48A
5	2N3771	60	2SB827	115	2SD1878	170	BDY57	225	BUX48C
6	2N3772	61	2SB834	116	2SD2053	171	BDY76	226	BUY71
7	2N3773	62	2SB861	117	2SD2495	172	BDY90	227	BUY72
8	2N5884	63	2SC1061	118	2SD2498	173	BDY99	228	MJ15001
9	2N6360	64	2SC1413A	119	2SD2499	174	BT151	229	MJ15002
10	2N6371	65	2SC1507	120	2SD2560	175	BU1506DX	230	MJ15003
11	2N6383	66	2SC2073	121	2SD313	176	BU1508DX	231	MJ15004
12	2N6384	67	2SC2233	122	2SD325	177	BU208	232	MJ15011
13	2N6385	68	2SC2335	123	2SD401	178	BU208A	233	MJ15012
14	2N6386	69	2SC2577	124	2SD5071	179	BU208D	234	MJ15015
15	2N6387	70	2SC2578	125	2SD5072	180	BU2508	235	MJ15016
16	2N6388	71	2SC2579	126	2SD560	181	BU2508A	236	MJ15023
17	2N6436	72	2SC2580	127	2SD716	182	BU2508AF	237	MJ2955
18	2N6438	73	2SC2581	128	2SD717	183	BU2508D	238	MJE13003
19	2N6469	74	2SC2681	129	2SD717	184	BU2508DF	239	MJE13005
20	2N6471	75	2SC2921	130	2SD718	185	BU2520AF	240	MJE13007
21	2N6473	76	2SC2922	131	2SD820	186	BU2520DF	241	S2000
22	2N6475	77	2SC3150	132	2SD821	187	BU2708AF	242	S2000A
23	2P4M	78	2SC3180	133	2SD834	188	BU2708DF	243	S2000A1
24	2SA1012	79	2SC3181	134	2SD850	189	BU326	244	S2000A2
25	2SA1102	80	2SC3181N	135	2SD869	190	BU326A	245	S2000A3
26	2SA1103	81	2SC3182	136	2SD870	191	BU406	246	S2000AF
27	2SA1104	82	2SC3182N	137	2SD880	192	BU407	247	S2000F
28	2SA1105	83	2SC31880N	138	2SD882	193	BU408	248	S2000N
29	2SA1106	84	2SC3280	139	2SD951	194	BU50D	249	S2055
30	2SA1141	85	2SC3281	140	BD135	195	BU506DF	250	S2055A
31	2SA1186	86	2SC3306	141	BD136	196	BU508	251	S2055AF
32	2SA1215	87	2SC3833	142	BD249C	197	BU508A	252	S2055N
33	2SA1216	88	2SC3834	143	BD250C	198	BU508AF	253	STR5412
34	2SA1263	89	2SC4242	144	BD909	199	BU508D	254	STR6020
35	2SA1263N	90	2SC4300	145	BD911	200	BU508DF	255	STRS6307
36	2SA1264	91	2SC4517	146	BD912	201	BU806	256	STRS6308
37	2SA1264N	92	2SC4552	147	BDV64A	202	BU807	257	STRS6309
38	2SA1265	93	2SC4886	148	BDV65A	203	BU931	258	TIP120
39	2SA1265N	94	2SC5199	149	BDV66B	204	BUH313	259	TIP121
40	2SA1301	95	2SC5200	150	BDV67C	205	BUH313D	260	TIP122
41	2SA1302	96	2SC789	151	BDV93	206	BUH515	261	TIP2955
42	2SA1307	97	2SD1046	152	BDV96	207	BUH515D	262	TIP3055
43	2SA1386	98	2SD1047	153	BDW10	208	BUT11	263	TIP31
44	2SA1640	99	2SD1148	154	BDW34	209	BUT11A	264	TIP31C
45	2SA1645	100	2SD1402	155	BDW52	210	BUT11AF	265	TIP32
46	2SA1670	101	2SD1403	156	BDW59	211	BUT12	266	TIP32C
47	2SA1726	102	2SD1406	157	BDW64	212	BUT12A	267	TIP34
48	2SA1941	103	2SD1407	158	BDW94	213	BUT12AF	268	TIP34C
49	2SA1942	104	2SD1426	159	BDX10	214	BUT18	269	TIP35
50	2SA1943	105	2SD1427	160	BDX31	215	BUT18A	270	TIP35C
51	2SA614	106	2SD1541	161	BDX51	216	BUT18AF	271	TIP41C
52	2SA634	107	2SD1545	162	BDX53B	217	BUT56	272	TIP42C
53	2SA940	108	2SD1554	163	BDX54B	218	BUT56A	273	TIP515
54	2SB507	109	2SD1555	164	BDX64	219	BUV48	274	TIP519
55	2SB686	110	2SD1649	165	BDX87	220	BUV48A	275	TIP553

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SOT-23 PLASTIC-ENCAPSULATE BIPOLAR TRANSISTOR

TRANSISTOR

PARAMETER TYPE	Pc (mW)	IC (mA)	Bvcb0 (v)	Bvceo (v)	Lcb (mA)	HFE		Vce sat			fT (MHz)	MARK	SUBSTITUTE TYPE			
						Vcb(V)	MIN	MAX	Ic(mA)	Vce(V)				(v)	Ic(mA)	Ib(Ma)
S9011LT1	310	30	30	20	0.1	16	28	200	1	5	0.3	10	1	150	1T	SS9011
S9012LT1	450	-500	-40	-20	-0.1	-40	60	300	-50	-1	-0.6	-500	-50	150	2T1	SS9012
S9013LT1	450	500	40	45	0.1	40	60	300	50	1	0.6	500	50	150	J3	SS9013
S9014LT1	400	100	50	-45	0.1	50	60	1000	1	5	0.3	100	5	150	J6	SS9014
S9015LT1	400	-100	-50	20	-0.1	-50	60	1000	-1	-5	-0.5	-100	-5	100	M6	SS9015
S9016LT1	310	25	30	18	0.1	30	28	200	1	5	0.3	10	1	300	Y6	SS9016
S9018LT1	310	50	30	25	0.1	20	28	200	1	5	0.5	10	1	600	J8	SS9018
S8050LT1	625	500	40	-25	0.1	40	80	300	50	1	0.6	500	50	100	J3Y	S8050
S8550LT1	625	-500	-40	25	-0.1	-40	60	300	-50	-1	-0.6	-500	-50	100	2TY	S8550
SS8050LT1	625	1500	40	-25	0.1	40	80	300	100	1	0.5	800	80	100	Y1	SS8050
SS8550LT1	625	-1500	-40	-50	-0.1	-40	60	300	-100	-1	-0.5	-800	-80	100	Y2	SS8550
2SA1015LT1	400	-150	-50	50	-0.1	-60	70	400	-2	-6	-0.3	-100	-10	80	BA	2SA1015
2SC1815LT1	400	150	60	50	0.1	60	70	700	2	6	0.25	100	10	80	HF	2SC1815
2SC945LT1	400	150	60	40	0.1	60	70	700	1	6	0.3	100	5	150	CR	2SC945
MMBT3904LT1	200	200	60	-40	0.1	30	100	300	10	1	0.3	50	-5	300	1AM	MMBT3904LT1
MMBT3906LT1	200	-200	-40	40	-0.1	-25	100	300	-10	-1	-0.4	-50	15	250	2A	MMBT3906LT1
MMBT2222ALT1	200	500	75	-40	0.1	60	100	300	150	10	0.3	150	-50	300	1P	MMBT2222LT1
MMBT2907LT1	300	-600	-60	-150	-0.1	-50	100	300	-150	-10	-1	-500	-5	200	M2B	MMBT2907LT1
MMBT5401LT1	300	-600	-160	160	-0.1	-120	80	250	-10	5	-0.5	-50	5	100	2L	MMBT5401LT1
MMBT5551LT1	300	600	180	300	0.1	180	80	250	10	10	0.5	50	2	80	G1	MMBT5551LT1
MMBTA42LT1	300	300	300	-305	0.25	200	80	250	10	-10	0.2	20	-2	50	1D	MMBTA42
MMBTA92LT1	300	-300	-310	-45	-0.3	-200	80	250	-10	-1	-0.2	-20	-50	50	2D	MMBTA92
BC807-16LT1	300	-500	-50	-45	-0.1	-20	100	250	-100	-1	-0.7	-500	-50	200	5A1	BC807-16LT1
BC807-25LT1	300	-500	-50	-45	-0.1	-20	160	400	-100	-1	-0.7	-500	-50	200	5B	BC807-25LT1
BC807-40LT1	300	-500	-50	45	-0.1	-20	250	600	-100	1	-0.7	-500	50	200	5C	BC807-40LT1
BC817-16LT1	300	500	50	45	0.1	20	100	250	100	1	0.7	500	50	100	6A	BC817-16LT1
BC817-25LT1	300	500	50	45	0.1	20	160	400	100	1	0.7	500	50	100	6B	BC817-25LT1
BC817-40LT1	300	500	50	65	0.1	20	250	600	100	5	0.7	500	0.5	100	6C	BC817-40LT1
BC846ALT1	300	100	80	65	0.01	50	110	220	2	5	0.25	10	0.5	100	1A	BC846ALT1
BC846BLT1	300	100	80	45	0.01	50	200	450	2	5	0.25	10	0.5	100	1B	BC846BLT1
BC847ALT1	300	100	50	45	0.01	30	110	220	2	5	0.25	10	0.5	100	1E	BC847ALT1
BC847BLT1	300	100	50	45	0.01	30	200	450	2	5	0.25	10	0.5	100	1F	BC847BLT1
BC847CLT1	300	100	50	30	0.01	30	420	800	2	5	0.25	10	0.5	100	1G	BC847CLT1
BC848ALT1	300	100	30	30	0.01	20	110	220	2	5	0.25	10	0.5	100	1J	BC848ALT1
BC848BLT1	300	100	30	30	0.01	20	200	450	2	5	0.25	10	0.5	100	1K	BC848BLT1
BC848CLT1	300	100	30	-65	-0.01	20	420	800	2	-5	0.25	10	-0.5	150	1L	BC848CLT1
BC856ALT1	300	-100	-80	-65	-0.01	-50	125	250	2	-5	-0.3	-10	-0.5	150	3A	BC856ALT1
BC856BLT1	300	-100	-80	-45	-0.01	-50	220	475	-2	-5	-0.3	-10	-0.5	150	3B	BC856BLT1
BC857ALT1	300	-100	-50	-45	-0.01	-30	125	250	-2	-5	-0.3	-10	-0.5	150	3E	BC857ALT1
BC857BLT1	300	-100	-50	-30	-0.01	-30	220	475	-2	-5	-0.3	-10	-0.5	150	3F	BC857BLT1
BC858ALT1	300	-100	-30	-30	-0.01	-20	120	250	-2	-5	-0.3	-10	-0.5	150	3J	BC858ALT1
BC858BLT1	300	-100	-30	20	-0.01	-20	220	475	-2	-5	-0.3	-10	-0.5	150	3K	BC858BLT1

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SOT-23 PLASTIC-ENCAPSULATE BIPOLAR TRANSISTOR



PARAMETER TYPE	Pc (mW)	Ic (mA)	Vbcbo (V)	Vvceo (V)	Icb(μA)	Vcb(v)	HFE				Vce(sat) (V)			fT (MHz)	MARK	SUBSTITUTE TYPE
							MIN	MAX	Ic(mA)	Vce(v)	Ic(mA)	Ib(Ma)				
BC858CTL1	300	-100	-30	-30	-0.01	-20	420	800	-2	-5	-0.3	-10	-0.5	150	3L	BC858CLT1
2SA733LT1	300	-150	-60	-50	-0.1	-60	90	600	-1	-6	-0.3	-100	-10	50	CS	2SA733*
2SC1623	200	100	60	50	0.1	60	90	600	1	6	0.3	100	10	250	L4-7	2SC1623
FMMT4124	330	200	30	25	0.05	20	120	360	2	1	0.3	50	5	300	ZC	FMMT4124
2SC3875	150	150	60	50	0.1	60	70	700	2	6	0.25	100	10	80	AL	KTC3875
MMBTA55LT1	225	-500	-60	-60	-0.1	-60	100		-10	-1	-0.25	-100	-10	50	2H	MMBTA55LT1
MMBTA56LT1	225	-500	-80	-80	-0.1	-80	100		-10	-1	-0.25	-100	-10	50	2GM	MMBTA56LT1
MMBTA4401LT1	225	600	60	40	0.1	50	100	300	150	1	0.4	150	15	250	2X	MMBTA4401LT1
MMBTA4403LT1	225	-600	-40	-40	-0.1	-35	100	300	-150	-2	-0.4	-150	-15	250	2T	MMBTA4403LT1
UN2111	200	-100	-50	-50	-0.1	-50	35	-	-5	-10	-0.25	-10	-	80	V1	UN2111
UN2112	200	-100	-50	-50	-0.1	-50	60	-	-5	-10	-0.25	-10	-	80	V2	UN2112
UN2113	200	-100	-50	-50	-0.1	-50	80	-	-5	-10	-0.25	-10	-	80	V3	UN2113
UN2211	200	100	50	50	0.1	50	35	-	5	10	0.25	10	-	150	V4	UN2211
UN2212	200	100	50	50	0.1	50	60	-	5	10	0.25	10	-	150	V5	UN2212
UN2213	200	100	50	50	0.1	50	80	-	5	10	0.25	10	-	150	V6	UN2213
2SC3356	200	100	20	12	1.0	10	50	300	20	5	-	-	-	7G	R23-25	
2SC3838	200	50	20	11	0.5	10	56	180	5	10	0.5	10	5	32.G	AD	

SOT-89 VOLTAGE-STABILIZED SOURCE IC



TYPE	Pb(mW)	Vi(V)	Vo(v)	Iq(mA)	PACKAGING TYPE	PIN ARRAY	SUBSTITUTE TYPE
CJ78L05	500	30	4.75~5.25	5.5	SOT-89	OG1	LM78L05
CJ78L06	500	30	5.7~6.3	6.0	SOT-89	OG1	LM78L06
CJ78L08	500	30	7.6~8.4	5.5	SOT-89	OG1	LM78L08
CJ78L09	500	30	8.55~9.45	6.0	SOT-89	OG1	LM78L09
CJ78L12	500	35	11.4~12.6	6.0	SOT-89	OG1	LM78L12
CJ79L05	500	-30	-4.75~-5.25	5.5	SOT-89	GIO	LM79L05
CJ79L06	500	-30	-5.7~-6.3	6.0	SOT-89	GIO	LM79L06
CJ79L08	500	-30	-7.6~-8.4	6.0	SOT-89	GIO	LM79L08
CJ79L09	500	-30	-8.55~-9.45	-6.0	SOT-89	GIO	LM79L09
CJ79L12	500	-35	-11.4~-12.6	-6.0	SOT-89	GIO	LM79L12
CJ431	500		V _{REF} 2.44-2.55		SOT-89	RAC	TL431

SMALL-POWER FIELD EFFECT TRANSISTOR



PARAMETER TYPE	Pc(mW)	Ib(mA)	V _{BR} DSS(v)	I _{DSS} (μA)		I _{GSS} (nA)		C _{iss} (pf)	C _{oss} (pf)	V _{DS} (v)	V _{GS} (v)	PACKAGING TYPE	PIN ARRAY	MARK	SUBSTITUTE TYPE
				V _{DS}	V _{GS}	V _{DS}	V _{GS}								
2N7002	350	1300	60	1	60V 0V	10	0 15	25	6	25	0	SOT-23	1G2S3D	702	2N7002

SOT-23 PLASTIC-ENCAPSULATE DIODES



TYPE	CORRELATIVE TYPE	VR(V)	IF(mA)	IO(mA)	P(mw)	IR(μA)	VF(v)	Trr(ns)	MARK
1SS181	1S2836	80	300	100	150	0.5	1.2	4.0	A3
1SS184	1S2838	80	300	100	150	0.5	1.2	4.0	B3
1SS187	1SS223	80	300	100	150	0.5	1.2	4.0	D3
1SS190		80	300	100	150	0.5	1.2	4.0	E3
1SS193	1SS221	80	300	100	150	0.5	1.2	4.0	F3
1SS196		80	300	100	150	0.5	1.2	4.0	G
1SS226	1SS123	80	300	100	150	0.5	1.2	4.0	C3
BAL99LT1		70	100	100	300	2.5	1.25	6.0	JF
BAS116LT1		75	500	200	300	0.05	1.25	3.0	JV
BAS16LT1		75	500	200	300	1.0	1.25	9.0	A6
BAS19LT1		120	625	200	300	0.1	1.25	50	JP
BAS21LT1		250	625	200	300	1.0	1.25	50	JS
BAV199LT1		70	500	215	300	0.05	1.25	3.0	JY
BAV99LT1		70	500	215	300	1.0	1.25	6.0	A7
BAV70LT1		70	500	200	300	2.5	1.25	6.0	A4
BAV74LT1		50	500	200	300	0.1	1.0	4.0	JA
BAW56LT1		70	500	200	300	2.5	1.25	6.0	A1
BAS40-04/05/06		40	600	200	200	0.2	1/40mA	5.0	43/44/45/46
BAS70-04/05/06		70	100	70	200	0.1	1/15mA	5.0	73/74/75/76
BAT54-A/C/S		30	300	200	200	2.0	1/100mA	5.0	KL1/KL2/ KL3/KL4
MMBD914LT1		75	500	200	225	2.5	1/50mA	40	5D
BZXB		2.4-75			300				

TO-220 PLASTIC-ENCAPSULATE BIPOLAR TRANSISTOR



TYPE	POLARITY	Pc (mA)	Ic (mA)	Bvcb0 (v)	Bvceo (v)	HFE				Vce(sat)			fT(MHz)	PIN ARRAY	SUBSTITUTE TYPE
						MIN	MAX	Ic(mA)	Vce(v)	(v)	Ic(mA)	Ib(mA)			
D880A	NPN	1500	3000	60	60	40	270	500	5	1	3000	300	5	BCE	2SD880
D325	NPN	1800	1500	50	50	50	200	500	3	1	1500	150	50	BCE	3DD325
B511	PNP	1800	-1500	-50	-50	50	200	-500	-3	-1	-1500	-150	50	BCE	3CD511
B834A	PNP	1500	-3000	-60	-60	40	270	-500	-5	1	-3A	-300	5	BCE	2SB834
TIP31C	NPN	40W	3000	100	100	10	50	3000	4	1.2	3A	375	3	BCE	TIP31C
TIP32C	PNP	40W	-3000	-100	-100	10	50	-3A	-4	-1.2	-3A	-375	3	BCE	TIP32C
TIP41C	NPN	65W	6000	100	100	15	75	3000	4	1.5	6A	600	3	BCE	TIP41C
TIP42C	PNP	65W	-6000	-100	-100	15	75	-3A	-4	-1.5	-6A	-600	3	BCE	TIP42C
TIP120	NPN	65W	5000	60	60	1K	12K	500	3	2	3A	12	-	BCE	TIP120
TIP121	NPN	65W	5000	80	80	1K	12K	500	3	2	3A	12	-	BCE	TIP121
TIP122	NPN	65W	5000	100	100	1K	12K	500	3	2	3A	12	-	BCE	TIP122
BU406A	NPN	75W	7000	400	200	30	125	2A	5	0.8	5A	500	10	BCE	BU406A



TO-92 PLASTIC-ENCAPSULATE BIPOLAR TRANSISTOR

TYPE	POLARITY	Pc(mW)	Ic(mA)	V _{bcbo} (v)	V _{ce0} (v)	HEF				V _{ce(sat)} (V)	Ic(mA)	I _b (mA)	f _T (MHz)	PIN ARRAY	SUBSTI-TUTE TYPE
						MIN	MAX	Ic(mA)	V _{ce} (V)						
S9011	NPN	310	30	30	20	28	200	1	5	0.3	10	1	150	EBC	SS9011
S9012	PNP	625	-500	-40	-20	60	300	-50	-1	-0.6	-500	-50	150	EBC	SS9012
S9013	NPN	625	500	40	20	60	300	50	1	0.6	500	50	150	EBC	SS9013
S9014	NPN	450	100	50	45	60	1000	1	5	0.3	100	5	150	EBC	SS9014
S9015	PNP	450	-100	-50	-45	60	1000	-1	-5	-0.5	-100	-5	100	EBC	SS9015
S9016	NPN	310	25	30	20	28	200	1	5	0.3	10	1	400	EBC	SS9016
S9018	NPN	310	50	25	18	28	200	1	5	0.5	10	1	600	EBC	SS9018
S8050	NPN	625	500	40	25	80	300	50	1	0.6	500	50	100	EBC	S8050
S8550	PNP	625	-500	-40	-25	60	300	-50	-1	-0.6	-500	-50	100	EBC	S8550
SS8050	NPN	1000	1500	40	25	80	300	100	1	0.5	800	80	100	EBC	SS8050
SS8550	PNP	1000	-1500	-40	-25	60	300	-100	-1	-0.5	-800	-80	100	EBC	SS8550
A1015	PNP	400	-150	-50	-50	70	400	-2	-6	-0.3	-100	-10	80	ECB	2SA1015
C1815	NPN	400	150	60	50	70	700	2	6	0.25	100	10	80	ECB	2SC1815
C945	NPN	400	150	60	50	70	700	1	6	0.3	100	10	150	ECB	2SC945
2N3904	NPN	625	200	60	40	100	300	10	1	0.3	50	5	300	EBC	2N3904
2N3906	PNP	625	-200	-40	-40	100	300	-10	-1	-0.3	-500	-5	250	EBC	2N3906
MPS222A	NPN	625	500	75	40	100	300	150	10	1	500	50	300	EBC	MPS2222A
MPS2907	PNP	625	-600	-60	-40	100	300	-150	-10	-1	-500	-50	200	EBC	MPS2907
MPS2907A	NPN	625	-600	-60	-60	100	300	-150	-10	-1	-500	-50	200	EBC	MPS2907A
2N4401	PNP	625	600	60	40	100	300	150	1	0.4	150	15	250	EBC	2N4401
2N4403	PNP	625	-600	-40	-40	100	300	-150	-2	-0.4	-150	-15	250	EBC	2N4403
2N5401	PNP	625	-600	-160	-150	80	250	-10	-5	-0.5	-50	-5	100	EBC	2N5401
2N5551	NPN	625	600	180	160	80	250	10	5	0.5	50	5	80	EBC	2N5551
A42	NPN	625	300	300	300	80	250	10	10	0.2	20	2	50	EBC	MPSA42
A92	PNP	625	-300	-310	-305	80	250	-10	-10	-0.2	-20	-2	50	EBC	MPSA92
A44	NPN	625	200	400	400	80	300	10	10	0.2	10	1	50	EBC	MPSA44
A94	PNP	625	-200	-400	-400	80	300	-10	-10	-0.2	-10	-1	50	EBC	MPSA94
BC327	PNP	625	-800	-50	-45	100	400	-100	-1	-0.7	-500	-50	260	EBE	BC327
BC337	PNP	625	800	50	45	100	630	100	1	0.7	500	50	210	EBE	BC337
BC328	PNP	625	-800	-30	-25	100	400	-100	-1	-0.7	-500	-50	260	EBE	BC328
BC338	NPN	625	800	30	25	100	630	100	1	0.7	500	50	210	EBE	BC338
BC368	NPN	625	1000	25	20	85	375	500	1	0.5	1000	100	65	ECB	BC368
BC369	PNP	625	-1000	-25	-20	85	375	-500	1	-0.5	-1000	-100	65	ECB	BC369
BC546	NPN	625	100	80	65	110	800	2	5	0.2	100	5	150	EBE	BC546
BC547	NPN	625	100	50	45	110	800	2	5	0.52	100	5	150	EBE	BC547
BC548	NPN	625	100	30	30	110	800	2	5	0.2	100	5	150	EBE	BC548
BC556	PNP	625	-100	-80	-65	110	800	-2	-5	0.2	-100	-5	150	EBE	BC556
BC557	PNP	625	-100	-50	-45	110	800	-2	-5	0.2	-100	-5	150	EBE	BC557
BC558	PNP	625	-100	-30	-30	110	800	-2	-5	0.2	-100	-5	150	EBE	BC558
C1008	NPN	800	700	85	65	55	270	50	5	0.5	500	50	100	EBC	2SC1008
D965	NPN	750	5000	40	20	180	900	500	2	0.5	3000	100	150	ECB	2SD965
A733	PNP	400	-150	-60	-50	90	600	-1	6	-0.3	-100	-10	50	ECB	2SA733*

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TRANSISTOR

TO-92 PLASTIC-ENCAPSULATE BIPOLAR TRANSISTOR



TYPE	POLARITY	Pc(mW)	Ic(mA)	Bvcb0(V)	Bvceo(v)	HFE				Vce(sat)			fT(MHz)	PIN ARRAY	SUBSTITUTE TYPE
						MIN	MAX	Ic(mA)	Vce(V)	(v)	Ic(mA)	Ib(mA)			
M28S	NPN	625	1000	40	20	290	1000	1	1	0.55	600	20	100	ECB	M28S
KTA1271	PNP	625	-800	-35	-30	100	320	-100	-1	-0.7	-500	-20	120	ECB	KTA1271
KTC3203	NPN	625	800	35	30	100	320	100	1	0.5	500	20	120	ECB	KTC3203
KTC3198	PNP	625	150	60	50	70	700	2	6	0.25	100	10	80	ECB	KTC3298
KTA1266	NPN	625	-150	-50	-50	70	400	-2	-6	-0.3	-100	-10	80	ECB	KTA1266
2SA1300	PNP	750	-2000	-20	-10	140	600	-500	-1	-0.5	-2000	-50	100	ECB	2SA1300
2SC1959	NPN	500	500	35	30	70	400	100	1	0.25	100	10	200	ECB	2SC1959
2SC2001	NPN	600	700	30	25	90	400	100	1	0.6	700	70	50	ECB	2SC2001
2SC2120	NPN	600	800	35	30	100	320	100	1	0.5	500	20	100	ECB	2SC2120
2SC2216	NPN	300	50	50	45	40	140	12.5	12.5	0.2	15	1.5	300	BEC	2SC2216
2SC3279	NPN	750	2000	30	10	140	600	500	1	0.5	2000	50	100	ECB	2SC3279

TO-92MOD PLASTIC-ENCAPSULATE BIPOLAR TRANSISTOR



TYPE	POLARITY	Pc(mW)	Ic(mA)	Bvcb0(V)	Bvceo(v)	HFE				Vce(sat)			fT(MHz)	PIN ARRAY	SUBSTITUTE TYPE
						MIN	MAX	Ic(mA)	Vce(V)	(v)	Ic(mA)	Ib(mA)			
2SA1013	PNP	900	-1000	-160	-160	65	310	-200	-5	-1.5	-500	-50	15	ECB	2SA1013
KSA928A	PNP	1000	-2000	-30	-30	100	320	-500	-2	-2	-1500	-30	80	ECB	KSA928A
2SC2060	NPN	750	1000	40	32	80	400	100	3	0.4	500	50	50	ECB	2SC2060
2SC2229	NPN	800	50	200	150	70	240	10	5	0.5	10	1	80	ECB	2SC2229
2SC2383	NPN	900	1000	160	160	60	320	200	5	1	500	50	20	ECB	2SC2383
2SC2482	NPN	900	100	300	300	30	150	20	10	1	10	1	50	ECB	2SC2482
KSC2328A	NPN	1000	2000	30	30	100	320	500	2	2	1500	30	80	ECB	KSC2328A

TO-92 VOLTAGE-STABILIZED SOURCE IC



TYPE	Po(mW)	Vi(v)	Vo(v)	Iq(mA)	PACKAGING TYPE	SUBSTITUTE TYPE
CJ78L05	625	30	4.75~5.25	5.5	OGI	LM78L05
CJ78L06	625	30	5.7~6.3	6.0	OGI	LM78L06
CJ78L08	625	30	7.6~8.4	5.5	OGI	LM78L08
CJ78L09	625	30	8.55~9.45	6.0	OGI	LM78L09
CJ78L12	625	35	11.4~12.6	6.0	OGI	LM78L12
CJ79L05	625	-30	-4.75~-5.25	5.5	GIO	LM79L05
CJ79L06	625	-30	-5.7~-6.3	6.0	GIO	LM79L06
CJ79L08	625	-30	-7.6~-8.4	6.0	GIO	LM79L08
CJ79L09	625	-30	-8.55~-9.45	-6.0	GIO	LM79L09
CJ79L12	625	-35	-11.4~-12.6	-6.0	GIO	LM79L12
CJ431	770		VREF 2.44~2.55		RAC	TL431

TO-126 PLASTIC-ENCAPSULATE BIPOLAR TRANSISTOR


TYPE	POLARITY	Pc(mW)	Ic(mA)	Bvcbo(V)	Bvceo(v)	HEF				Vce(sat)			fT(MHz)	PIN ARRAY	SUBSTITUTE TYPE
						MIN	MAX	Ic(mA)	Vce(mA)	(v)	Ic(mA)	Ib(mA)			
D882	NPN	1000	3000	40	30	60	400	1000	2	0.5	2000	200	90	ECB	2SD882
B772	PNP	1000	-3000	-40	-30	60	400	-1000	-2	-0.5	-2000	-200	80	ECB	2SB77

SCR

TYPE	VDRM(V)	VRRM(V)	IT(A)	VGT(V)	IGT			VTM(V)	PACKAGING TYPE
					VAK(V)	Min(μA)	Max(μA)		
PCR0.6	400	-	0.6	<0.8	7	5	120	1.7	TO-92
MCR100	400	400	1	<0.8	7		200	1.7	TO-92
3CT2	400	400	2	<0.8	6		200	1.7	TO-92MOD
MAC97A6	600	600	1.5	<1.5	12	-	15000	1.5	TO-92

FIELD EFFECT TRANSISTOR

TYPE	Pc(mW)	ID(mA)	V(BR)DSS (V)	Ioss(μA)		Ioss(nA)		Ciss(pf)	Coss(pf)	VDS(V)	VGS(V)	PACKAGING TYPE	PIN ARRAY			
				VDS	VGS	VDS	VGS									
2N7000	350	1300	60	1	60	0	10	0	15	25	6	25	TO-92	DGS		
Vgs(OFF)																
K596	100	1	Bvgdo-20V	A	100-170	5	0	-1.5V	5V	1μA	3.5	0.65	5	TO-92S	SGD	
				B	150-240	5	0									
				C	210-350	5	0									
				D	320-480	5	0									
				E	400-800	5	0									

THREE-OPERATING SWITCHING TRANSISTOR FOR ELECTRONIC POWER-SAVING LAMP AND RECTIFIER

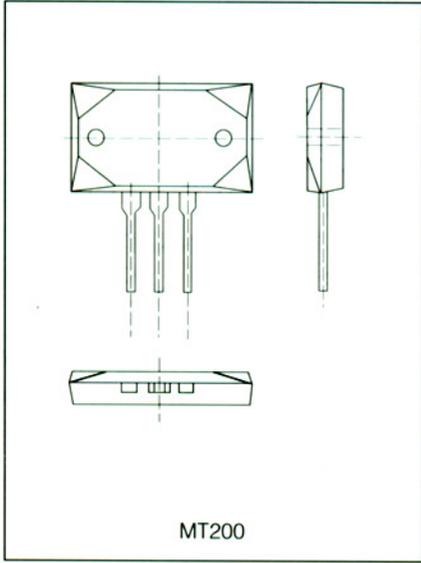
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							MIN	MAX	Ic(mA)	Vce(v)	(v)	Ic(mA)	Ib(Ma)			
3DD13001	0.75	0.20	600	400	100	600	8	60	20	20	0.5	50	10	10	TO-92	MJE13001
	1.20	0.20	600	400	100	600	8	60	20	20	0.5	50	10	10	TO-251/TO-126	
3DD13002	1.25	1.0	600	400	100	600	8	60	200	10	0.8	200	40	10	TO-251/TO-126	MJE13002
3DD13003	1.25	1.50	700	400	1000	700	8	40	500	2	1.0	1000	250	4	TO-126/TO-220	MJE13003
3DD13005	1.50	4.0	700	400	1000	700	8	60	1000	5	0.6	2000	500	5	TO-220	MJE13005
C2611	0.75	0.20	600	400	100	600	8	60	20	20	25	50	10	10	TO-92	MJE13001
	1.20	0.20	600	400	100	600	8	60	20	20	0.4	50	5	10	TO-251/TO-126	

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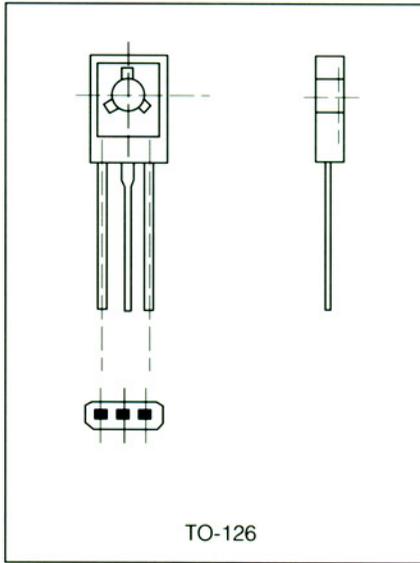
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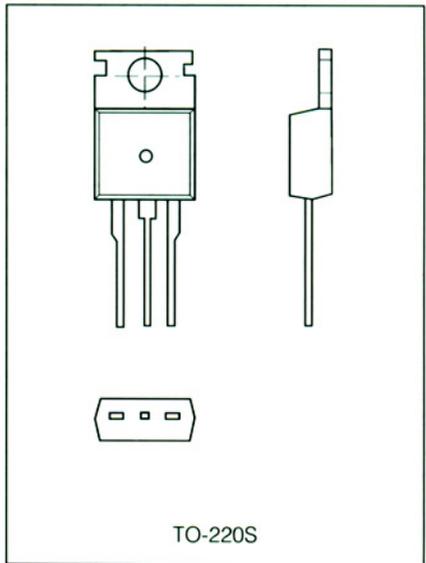
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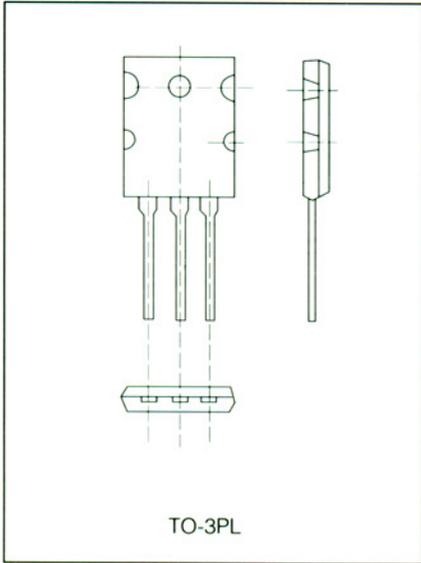
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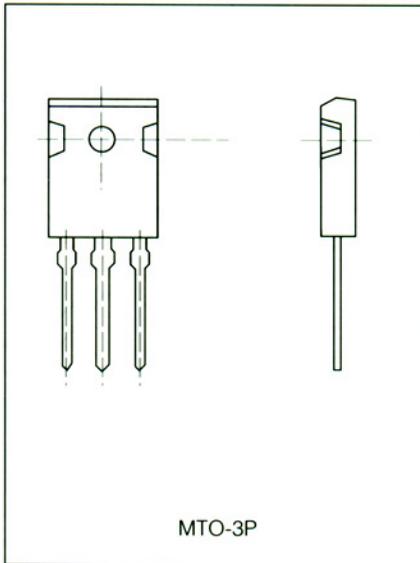
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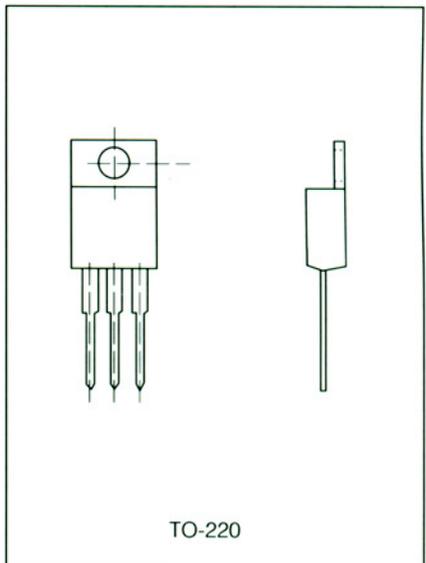
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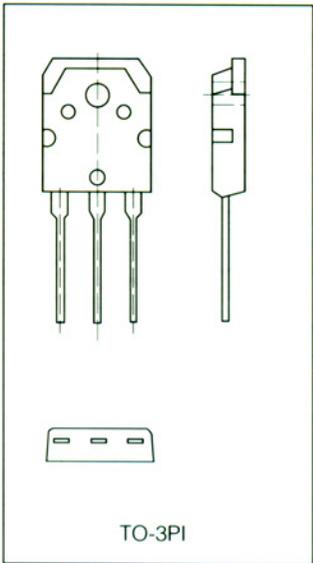
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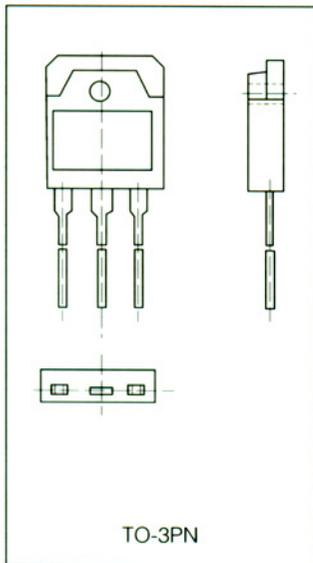
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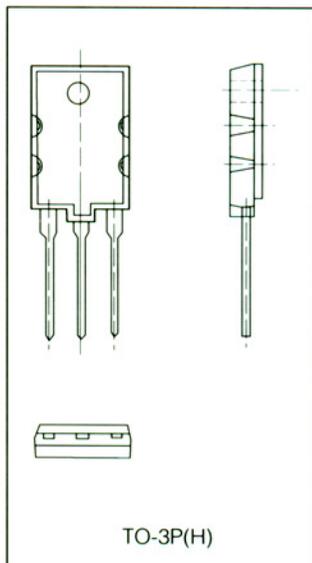
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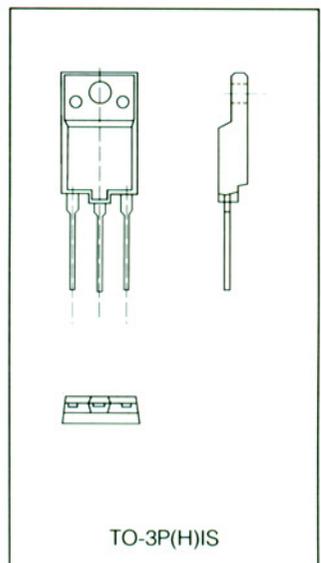
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TO-3PN

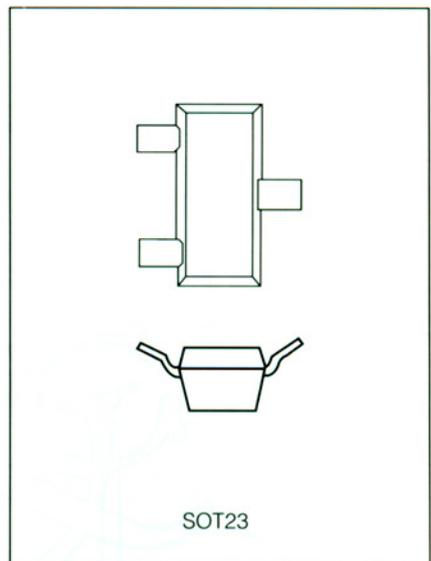
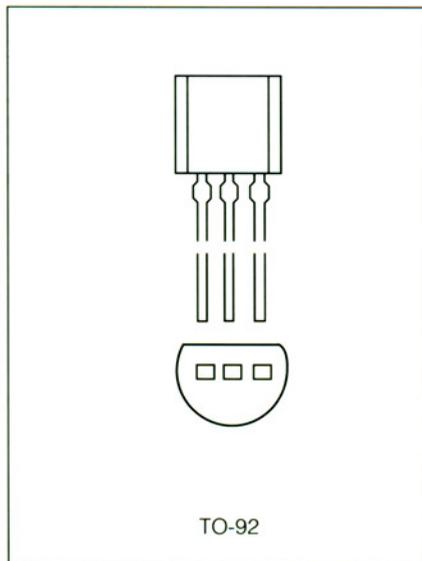
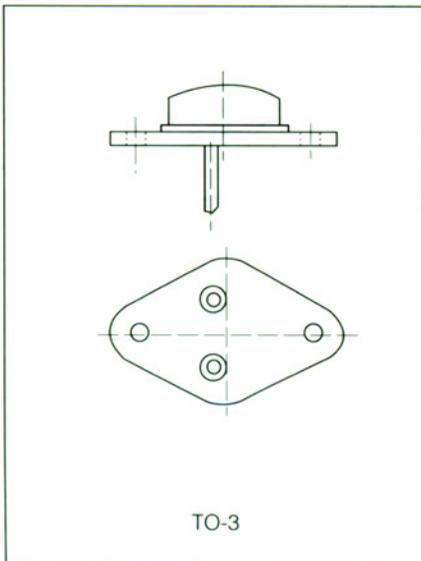
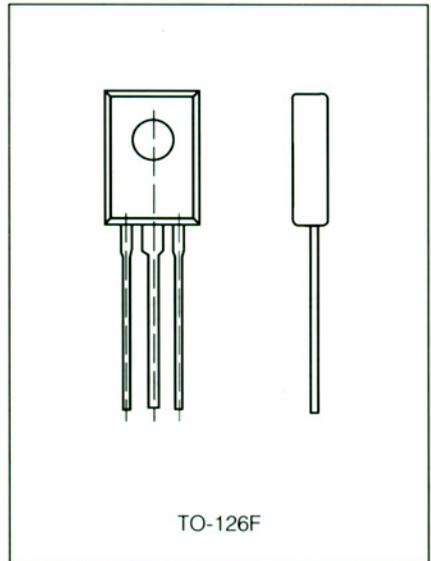
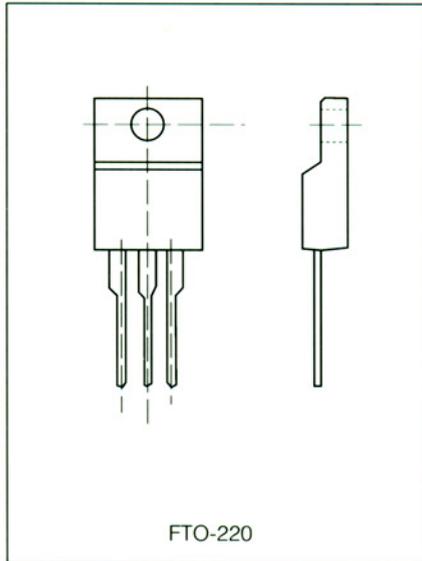
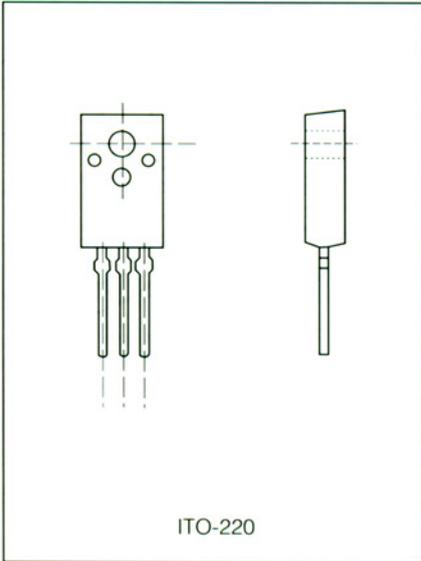
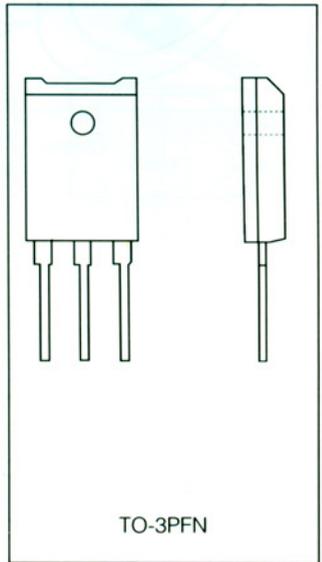
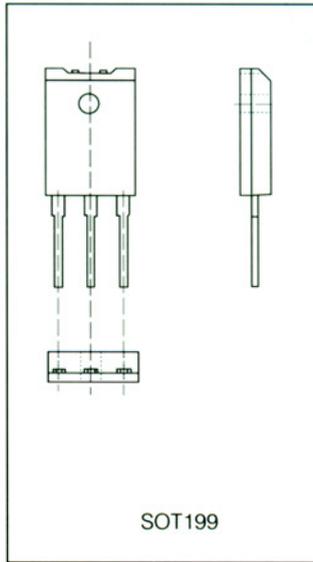
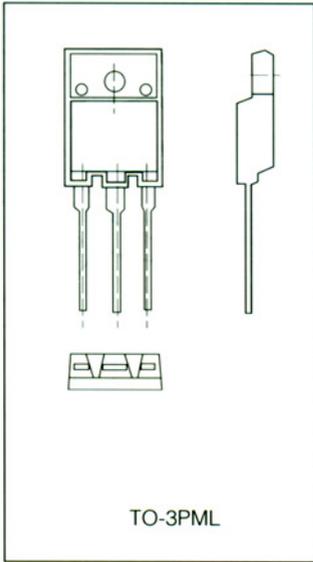
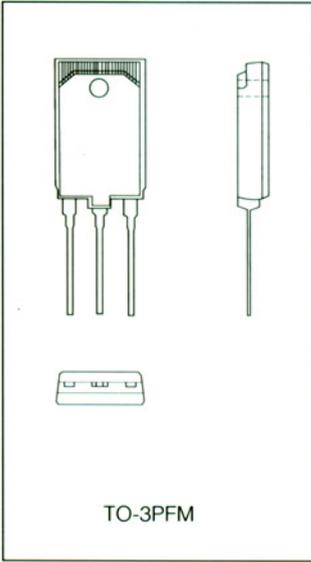


TO-3P(H)



TO-3P(H)IS

TRANSISTOR

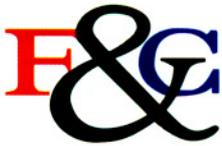


RECTIFIERS AND BRIDGES



SCHOTTKY BARRIER RECTIFIERS

Type Number	Forward Current(Amps)	Reverse Voltage Range(Volts)	Case
SR0620-SR0640	0.6	20-40	DO-41
1N17-1N19	1.0	20-40	R-1
1N5817-1N5819	1.0	20-40	DO-41
1S20-1SA0	1.0	20-100	R-1
SR120-SR1A0	1.0	20-100	DO-41
SM120-SM160	1.0	20-60	MELF(DO-213AB)
SM120G-SM160G	1.0	20-60	MELF(DO-213AB)
SM5817-SM5819	1.0	20-40	MELF(DO-213AB)
SM5817G-SM5819G	1.0	20-40	MELF(DO-213AB)
SS12-SS16	1.0	20-60	SMA(DO-214AC)
SK12-SK16	1.0	20-60	SMA(DO-214AC)
SS5817-SS5819	1.0	20-40	SMA(DO-214AC)
SR13-SR19	1.5	20-90	DO-41
SR220-SR2A0	2.0	20-100	DO-15
SS22-SS26	2.0	20-60	SMB(DO-214AA)
SK22-SK26	3.0	20-60	SMB(DO-214AA)
1N5820-1N5822	3.0	20-40	DO-201AD
SR320-SR3A0	3.0	20-100	DO-201AD
SR320-SR3A0	3.0	20-100	DO-15
SS32-SS36	3.0	20-60	SMB(DO-214AA)
SK32-SK36	3.0	20-60	SMB(DO-214AA)
SS5820-SS5822	3.0	20-40	SMB(DO-214AA)
SR520-SR5A0	5.0	20-100	DO-201AD
SS52-SS56	5.0	20-60	DO-201AD
SK52-SK56	5.0	20-60	DO-201AD
SR735-SR760(Single Chip)	7.5	35-60	TO-220AC
SRF735-SRF760(Single Chip)	7.5	35-60	ITO-220AC
SR735-SR760(Single Chip)	7.5	35-60	TO-263
SR820-SR8A0(Single Chip)	8.0	20-100	TO-220AC
SRF820-SRF8A0(Single Chip)	8.0	20-100	ITO-220AC
SR820-SR8A0(Single Chip)	8.0	20-100	TO-263
SR1020-SR1060(Single Chip)	10.0	20-60	TO-220AB
SRF1020-SRF1060(Single Chip)	10.0	20-60	ITO-220AB
SR1020-SR1060(Single Chip)	10.0	20-60	TO-263
SR1020-SR10A0	10.0	20-100	TO-220AB
SRF1020-SRF10A0	10.0	20-100	ITO-220AB
SR1020-SR10A0	10.0	20-100	TO-263
SR1535-SR1560	15.0	35-60	TO-220AB
SRF1535-SRF1560	15.0	35-60	ITO-220AB
SR1535-SR1560	15.0	35-60	TO-263
SR1620-SR16A0	16.0	20-100	TO-220AB
SRF1620-SRF16A0	16.0	20-100	ITO-220AB
SR1620-SR16A0	16.0	20-100	TO-263
SR2020-SR2060	20.0	20-60	TO-220AB
SR2020-SR2060	20.0	20-60	ITO-220AB
SR2020-SR2060	20.0	20-60	TO-263
SR3020-SR3060	30.0	20-60	TO-3P
SR4030-SR4060	40.0	30-60	TO-3P
SR5030-SR5060	50.0	30-60	TO-3P



SMALL SIGNAL SCHOTTKY DIODES

Type Number	If	VRRM	Reverse Voltage Range(Volts)	Case
1N60,1N60P	30/50mA	40/45V	Detector	DO-35(GLASS)
1N5711,1N6263	15mA	70/60V	Fast switching circuits	DO-35(GLASS)
1N5712	15mA	20V	UHF/VHF detection	DO-35(GLASS)
1SS106	30mA	10V	Detector	DO-35(GLASS)
BAT19	30mA	10V	UHF mixers	DO-35(GLASS)
BAT29	30mA	5V	UHF mixers	DO-35(GLASS)
BAT41	100mA	100V	General purpose	DO-35(GLASS)
BAT42,BAT43	200mA	30V	General purpose	DO-35(GLASS)
BAT42W,BAT43W	200mA	30V	General purpose	SOD-123(PLASTIC)
BAT45	30mA	15V	UHF mixers	DO-35(GLASS)
BAT46	150mA	100V	General purpose	DO-35(GLASS)
BAT46W	150mA	100V	General purpose	SOD-123(PLASTIC)
BAT47	350mA	20V	General purpose	DO-35(GLASS)
BAT48	350mA	40V	General purpose	DO-35(GLASS)
BAT85	200mA	30V	General purpose	DO-35(GLASS)
BAT86	100mA	50V	General purpose	DO-35(GLASS)
LL101A-LL101C	15mA	40-60V	General purpose	Mini-MELF(GLASS)
MCL101A-MCL101C	15mA	40-60V	General purpose	Micro-MELF(GLASS)
LL103A-LL103C	200mA	20-40V	General purpose	Mini-MELF(GLASS)
MCL103A-MCL103C	200mA	20-40V	General purpose	Micro-MELF(GLASS)
LL19	30mA	10V	UHF mixers	Mini-MELF(GLASS)
MCL19	30mA	10V	UHF mixers	Micro-MELF(GLASS)
LL29	100mA	5V	UHF mixers	Mini-MELF(GLASS)
MCL29	100mA	5V	UHF mixers	Micro-MELF(GLASS)
LL41	200mA	100V	General purpose	Mini-MELF(GLASS)
MCL41	200mA	100V	General purpose	Micro-MELF(GLASS)
LL42,LL43	30mA	30V	General purpose	Mini-MELF(GLASS)
MCL42,MCL43	30mA	30V	General purpose	Micro-MELF(GLASS)
LL45	150mA	15V	UHF mixers	Mini-MELF(GLASS)
MCL45	150mA	15V	UHF mixers	Micro-MELF(GLASS)
LL46	350mA	100V	General purpose	Mini-MELF(GLASS)
MCL46	350mA	100V	General purpose	Micro-MELF(GLASS)
LL47	350mA	20V	General purpose	Mini-MELF(GLASS)
MCL47	350mA	20V	General purpose	Micro-MELF(GLASS)
LL48	15mA	40V	General purpose	Mini-MELF(GLASS)
MCL48	15mA	40V	General purpose	Micro-MELF(GLASS)
LL85	200mA	30V	General purpose	Mini-MELF(GLASS)
LL86	100mA	50V	General purpose	Mini-MELF(GLASS)
LL5711,LL6263	15mA	70/60V	Fast switching cricuits	Mini-MELF(GLASS)
MCL5711,MCL6263	15mA	70/60V	Fast switching cricuits	Micro-MELF(GLASS)
LL5712	35mA	20V	UHF/VHF detection	Mini-MELF(GLASS)
MCL5712	35mA	20V	UHF/VHF detection	Micro-MELF(GLASS)
MA700,MA700A	30mA	15/30V	Detector	DO-35(GLASS)
LL700,LL700A	30mA	15/30V	Detector	Mini-MELF(GLASS)
MCL700,MCL700A	30mA	15/30V	Detector	Micro-MELF(GLASS)
SD101A-SD101C	15mA	40-60V	General purpose	DO-35(GLASS)
SD101AW-SD101CW	15mA	40-60V	General purpose	SOD-123(PLASTIC)
SD101AWS-SD101CWS	15mA	40-60V	General purpose	SOD-323(PLASTIC)
SD103A-SD103C	200mA	20-40V	General purpose	DO-35(GLASS)
SD103AW-SD103CW	200mA	20-40V	General purpose	SOD-123(PLASTIC)
SD103AWS-SD103CWS	200mA	20-40V	General purpose	SOD-323(PLASTIC)
SD104AWS-SD104CWS	10mA	20-10V	Detector	SOD-323(PLASTIC)
SD106WS	200mA	30V	General purpose	SOD-323(PLASTIC)
SD107WS	200mA	30V	General purpose	SOD-323(PLASTIC)

SILICON BIDIRECTIONAL DIACS

Type Number	V _{bo} (Volts)	Case
DB3	28-36	DO-35(GLASS)
DC-34	30-38	DO-35(GLASS)
DB4	35-45	DO-35(GLASS)
DB6	56-70	DO-35(GLASS)
LLDB3	28-36	Mini-MELF(GLASS)
LLDC34	30-38	Mini-MELF(GLASS)
LLDB4	35-45	Mini-MELF(GLASS)
LLDB6	56-70	Mini-MELF(GLASS)
MCLDB3	28-36	Micro-MELF(GLASS)
MCLDC34	30-38	Micro-MELF(GLASS)
MCLDB4	35-45	Micro-MELF(GLASS)
MCLDB6	56-70	Micro-MELF(GLASS)

SIDAC

Type Number	V _{bo} (Volts)	I _{tSM} (A)(60Hz)	Case
DB1050G	95-113	20	DO-15
DB1100G	104-118	20	DO-15
DB1200G	110-125	20	DO-15
DB1300G	120-138	20	DO-15
DB1400G	130-146	20	DO-15
DB1500G	140-170	20	DO-15
DB2000G	190-215	20	DO-15
DB2200G	205-230	20	DO-15
DB2400G	220-250	20	DO-15
DB2500G	240-280	20	DO-15
DB3000G	270-300	20	DO-15
DB1050S	95-113	20	SMB
DB1100S	104-118	20	SMB
DB1200S	110-125	20	SMB
DB1300S	120-138	20	SMB
DB1400S	130-146	20	SMB
DB1500S	140-170	20	SMB
DB2000S	190-215	20	SMB
DB2200S	205-230	20	SMB
DB2400S	220-250	20	SMB
DB2500S	240-280	20	SMB
DB3000S	270-300	20	SMB
DB2000F1	190-215	20	TO-220AB
DB2200F1	205-230	20	TO-220AB
DB2400F1	220-250	20	TO-220AB
DB2401F1	220-250	20	TO-220AB
DB2500F1	240-280	20	TO-220AB
DB3000F1	270-300	20	TO-220AB



SIDAC PROTECTOR(SOLID STATE OVERVOLTAGE PROTECTOR)

Type Number	VBo(Volts)	IPP(10x1000µs)(A)	Case
SP030A	27-36	50	DO-41
SP064A	58-70	50	DO-41
SP100A	90-125	50	DO-41
SP120A	120-145	50	DO-41
SP150A	135-165	50	DO-41
SP220A	170-225	50	DO-41
SP240A	190-265	50	DO-41
SP270A	220-300	50	DO-41
SP320A	275-350	50	DO-41
SP345A	300-400	50	DO-41
SP030B	27-36	60	DO-15
SP064B	58-70	60	DO-15
SP100B	90-125	60	DO-15
SP120B	120-145	60	DO-15
SP150B	135-165	60	DO-15
SP220B	170-225	60	DO-15
SP240B	190-265	60	DO-15
SP270B	220-300	60	DO-15
SP320B	275-350	60	DO-15
SP345B	300-400	60	DO-15
SP030C	27-36	90	DO-201AD
SP064C	58-70	90	DO-201AD
SP100C	90-125	90	DO-201AD
SP120C	120-145	90	DO-201AD
SP150C	135-165	90	DO-201AD
SP220C	170-225	90	DO-201AD
SP240C	190-265	90	DO-201AD
SP270C	220-300	90	DO-201AD
SP320C	275-350	90	DO-201AD
SP345C	300-400	90	DO-201AD

GAS DISCHARGE TUBES

Type Number	VBo(Volts)	IPP(10x1000µs)(A)	Case
GP201	200	50	DO-35(GLASS)
GP301	300	50	DO-35(GLASS)
GP351	350	50	DO-35(GLASS)
GP401	400	50	DO-35(GLASS)

TRANSIENT VOLTAGE SUPPRESSORS(TVS)

Type Number	Watts	Case
P4KE6.8-P4KE440CA	400	DO-41
P6KE6.8-P6KE440CA	600	DO-41

SMALL SIGNAL SWITCHING DIODES

Type Number	V _{RM} (V)	I _{AV} (mA)	I _{tot} (mW)	T _{rr} (ns)	Case
1N914	100	75	500	4.0	DO-35(GLASS)
1N4149	100	150	500	4.0	DO-35(or DO-34)(GLASS)
1N4150	50	200	500	4.0	DO-35(GLASS)
1N4152	40	150	400	2.0	DO-35(GLASS)
1N4153	75	150	400	2.0	DO-35(GLASS)
1N4154	35	150	500	2.0	DO-35(GLASS)
1N4447	100	150	500	4.0	DO-35(or DO-34)(GLASS)
1N4449	100	150	500	4.0	DO-35(or DO-34)(GLASS)
1N4450	40	150	400	4.0	DO-35(GLASS)
1N4451	40	150	400	10	DO-35(GLASS)
1N4453	30	200	400		DO-35(GLASS)
1N4454	75	150	400	4.0	DO-35(GLASS)
1N4148	100	150	500	4.0	DO-35(GLASS)
1N4151	75	150	500	4.0	DO-35(GLASS)
1N4448	100	150	500	4.0	DO-35(GLASS)
LL4448	100	150	500	4.0	Mini-MELF(GLASS)
MCL4148	100	150	500	4.0	Micro-MELF(GLASS)
LL4151	75	150	500	4.0	Mini-MELF(GLASS)
MCL4151	75	150	500	4.0	Micro-MELF(GLASS)
LL4448	100	150	500	4.0	Mini-MELF(GLASS)
MCL4448	100	150	500	4.0	Micro-MELF(GLASS)

GENERAL PURPOSE PLASTIC RECTIFIERS

Type Number	Forward Current(Amps)	Reverse Voltage Range(Volts)	Case
1A1-1A7	1.0	50-1000	R-1
RL101-RL107	1.0	50-1000	4-405
1N4001-1N4007	1.0	50-1000	DO-41
BY127,BY133,EM513,EM516	1.0	1250-1800	DO-41
1N5391-1N5399	1.5	50-1000	DO-15
RL151-RL157	1.5	50-1000	DO-15
RL201-RL207	2.0	50-1000	DO-15
RL251-RL257	3.0	50-1000	R-3
1N5400-1N5408	3.0	50-1000	DO-201AD
BY251-BY255	3.0	200-1000	DO-201AD
BY550-50---BY550-1000	5.0	50-1000	DO-201AD
6A05-6A10	6.0	50-1000	R-6



SUPER FAST RECTIFIERS

Type Number	Forward Current(Amps)	Reverse Voltage Range(Volts)	Case
SF101-SF104	1.0	50-400	DO-41
SF201-SF204	2.0	50-400	DO-15
SF301-SF304	3.0	50-400	DO-201AD
SF501-SF504	5.0	50-400	DO-201AD

FAST RECOVERY RECTIFIERS

Type Number	Forward Current(Amps)	Reverse Voltage Range(Volts)	Case
1F1-1F7	1.0	50-1000	R-1
RL101F-RL107F	1.0	50-1000	4-405
1N4933-1N4937	1.0	50-600	DO-41
1N4942-1N4948	1.0	200-1000	DO-41
BA157-BA159	1.0	400-1000	DO-41
FR101-FR107	1.0	50-1000	DO-41
FR151-FR157	1.5	50-1000	DO-15
BY296-BY299S	2.0	100-1000	DO-201AD
FR201-FR207	2.0	50-1000	DO-15
FR251-FR257	2.5	50-1000	R-3
BY396-BY399S	3.0	100-1000	DO-201AD
FR301-FR307	3.0	50-1000	DO-201AD
MR850-MR858	3.0	50-800	DO-201AD
FR601-FR607	6.0	50-1000	R-6

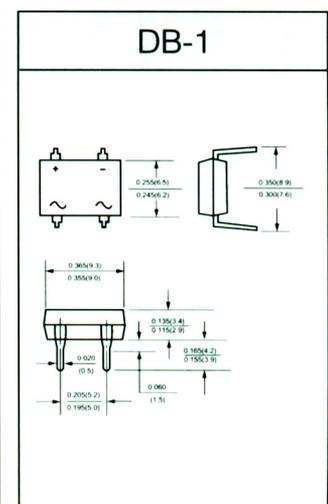
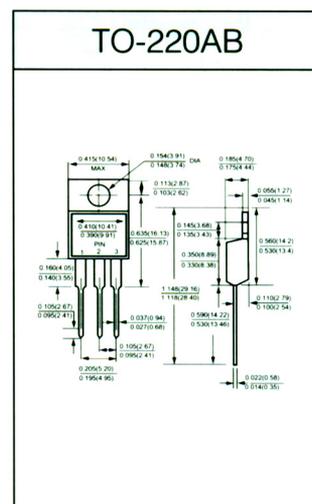
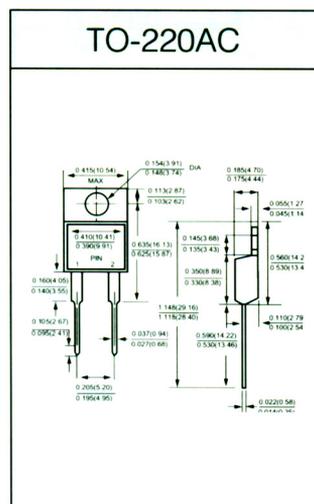
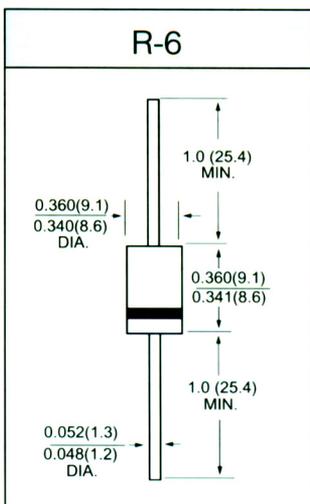
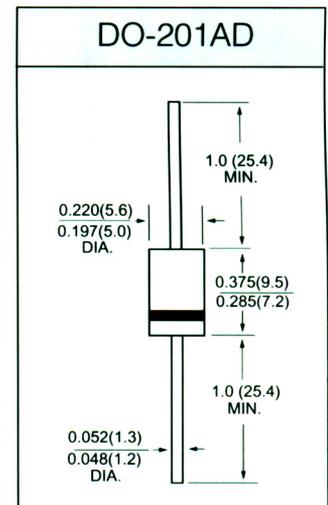
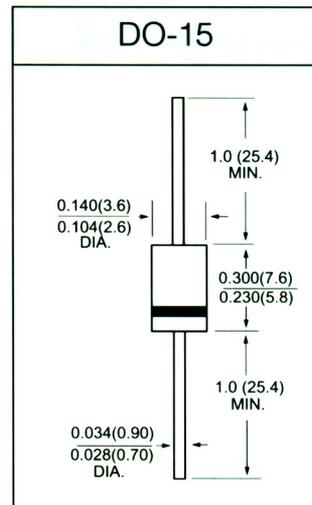
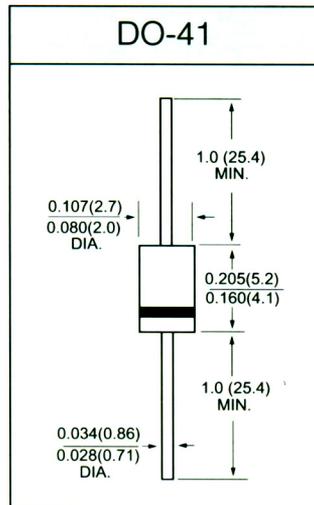
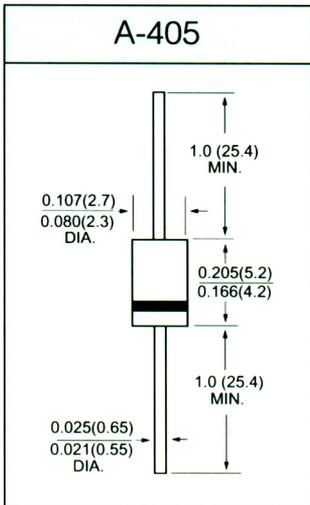
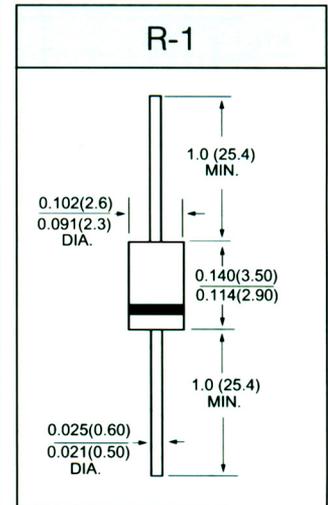
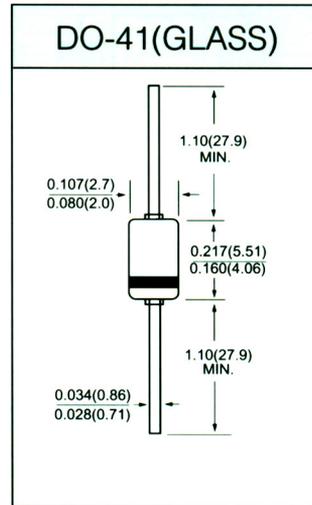
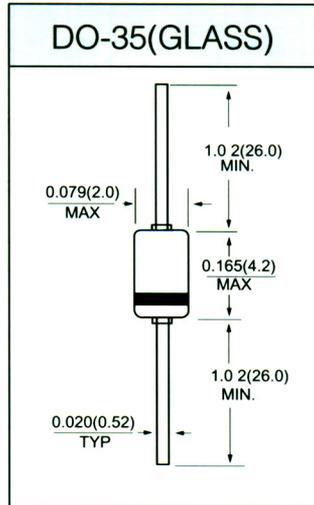
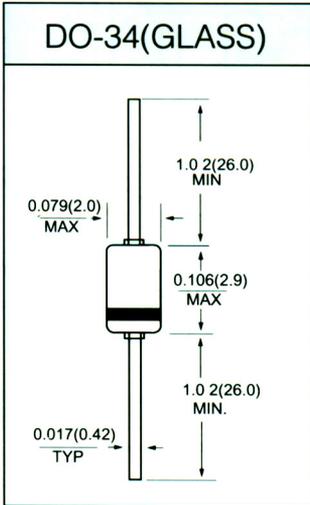
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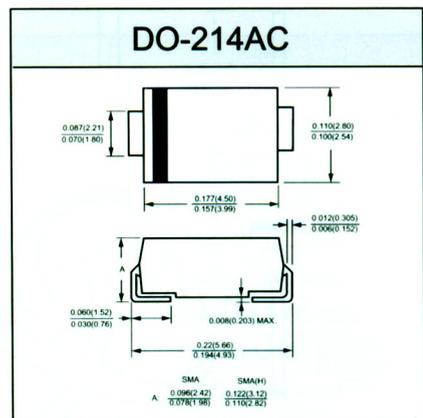
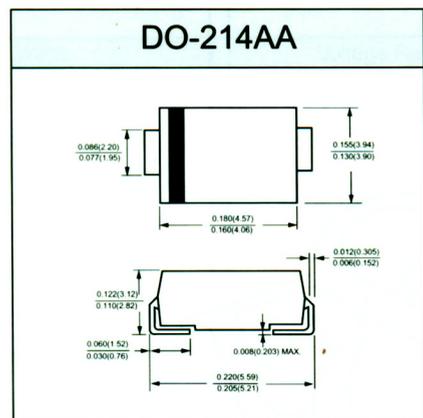
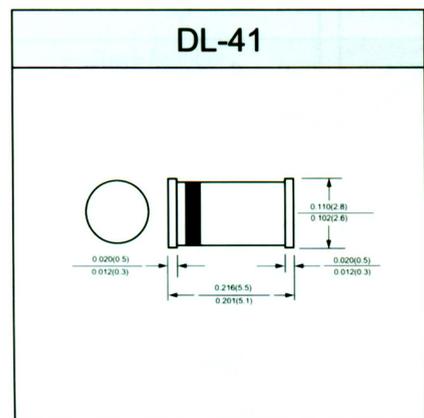
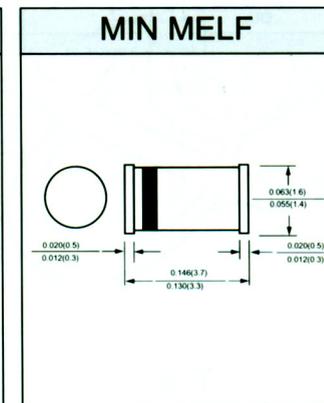
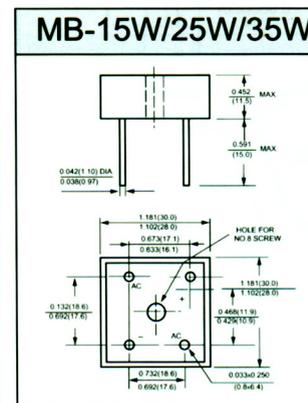
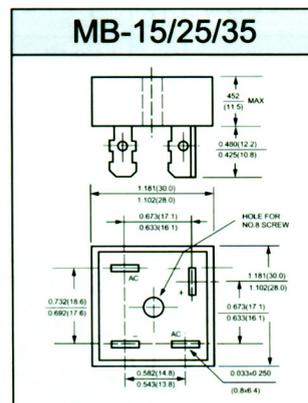
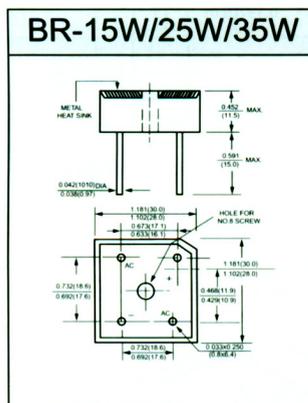
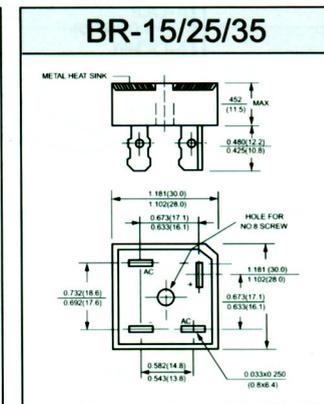
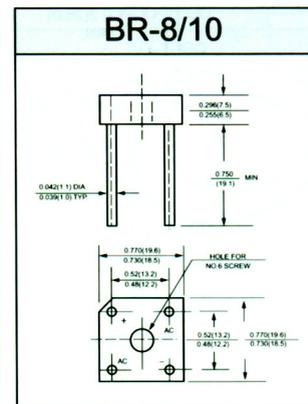
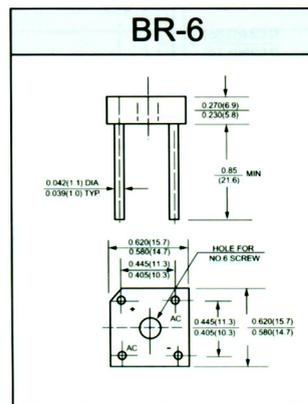
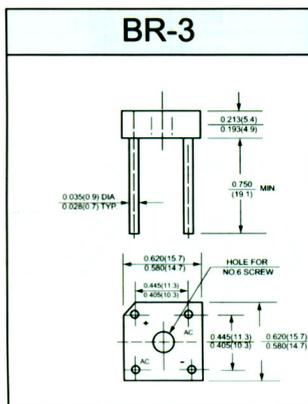
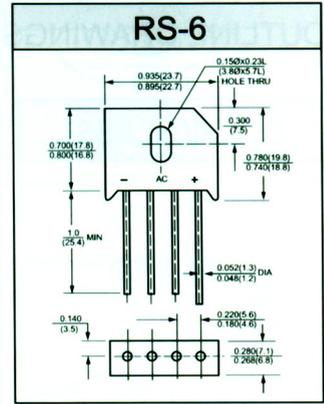
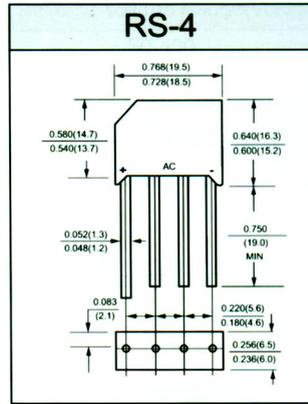
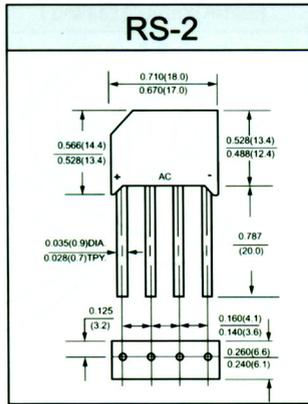
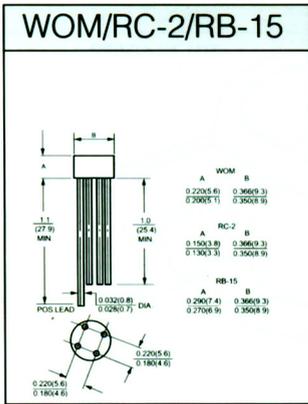
Type Number	Forward Current(Amps)	Reverse Voltage Range(Volts)	Case
1H1-1H8	1.0	50-1000	R-1
HER101L-HER107L	1.0	50-1000	4-405
HER101-HER107	1.0	50-1000	DO-41
HER151-HER157	1.5	50-1000	DO-15
HER201-HER207	2.0	50-1000	R-15
HER301-HER307	3.0	50-1000	DO-201AD
HER501-HER507	5.0	50-1000	DO-201AD
HER601-HER607	6.0	50-1000	R-6

ZENER DIODES

Type Number	Watts	Voltage Range	Case
1N746-1N759	500mW	3.3-12.0V	DO-35(GLASS)
1N957-1N978	500mW	6.8-51V	DO-35(GLASS)
1N5221-1N5281	500mW	2.4-200V	DO-35(GLASS)
BZX55-C 0V8-C 200	500mW	0.8-200V	DO-35(GLASS)
BZX97/C 2V4-C 51	500mW	2.4-51V	DO-35(GLASS)
ZPD2.7-ZPD51	500mW	2.7-51V	DO-35(GLASS)
ZMM5225-ZMM5262	500mW	3.0-51	Mini-MELF(GLASS)
ZMM1-ZMM200	500mW	0.75-200V	Mini-MELF(GLASS)
1N4728-1N4764	1W	3.3-100V	DO-41(GLASS)
BZV85/C 2V7-C 200	1W	2.7-200V	DO-41(GLASS)

OUTLINE DRAWINGS





TYPE	Maximum peak Reverse Voltage	Maximum Average Rectified Current @Half-Wave Resistive Load 50Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum reverse Current @PRV @25°C _T A	Maximum Forward voltage @25°C _T A	
	PRV	I _o @ ^T A		I _{FSM}	I _R	I _{FM}	V _{FM}
	V _{pk}	AAV	°C	A _{pk}	μA _{dc}	A _{pk}	V _{pk}

1.0AMPERES/DB-1



DB101	DB101S	50	1.0	40	50	10	1.0	1.1
DB102	DB102S	100	1.0	40	50	10	1.0	1.1
DB103	DB103S	200	1.0	40	50	10	1.0	1.1
DB104	DB104S	400	1.0	40	50	10	1.0	1.1
DB105	DB105S	600	1.0	40	50	10	1.0	1.1
DB106	DB106S	800	1.0	40	50	10	1.0	1.1
DB107	DB107S	1000	1.0	40	50	10	1.0	1.1

1.0AMPERES/WOM



W005	50	1.0	25	50	10	1.0	1.0
W01	100	1.0	25	50	10	1.0	1.0
W02	200	1.0	25	50	10	1.0	1.0
W04	400	1.0	25	50	10	1.0	1.0
W06	600	1.0	25	50	10	1.0	1.0
W08	800	1.0	25	50	10	1.0	1.0
W10	1000	1.0	25	50	10	1.0	1.0

2.0AMPERES/WOM



2W005	50	2.0	25	50	10	2.0	1.1
2W01	100	2.0	25	50	10	2.0	1.1
2W02	200	2.0	25	50	10	2.0	1.1
2W04	400	2.0	25	50	10	2.0	1.1
2W06	600	2.0	25	50	10	2.0	1.1
2W08	800	2.0	25	50	10	2.0	1.1
2W10	1000	2.0	25	50	10	2.0	1.1

2.0AMPERES/RS-2



RS201	50	2.0	50	50	10	2.0	1.1
RS202	100	2.0	50	50	10	2.0	1.1
RS203	200	2.0	50	50	10	2.0	1.1
RS204	400	2.0	50	50	10	2.0	1.1
RS205	600	2.0	50	50	10	2.0	1.1
RS206	800	2.0	50	50	10	2.0	1.1
RS207	1000	2.0	50	50	10	2.0	1.1

TYPE	Maximum peak Reverse Voltage	Maximum Average Rectified Current @Half-Wave Resistive Load 50Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum reverse Current @PRV @25°C _T A	Maximum Forward voltage @25°C _T A	
	PRV	I _o @T _A		I _{fSM}	I _R	I _{fM}	V _{fM}
	V _{pk}	AAV	°C	A _{pk}	μA _{dc}	A _{pk}	V _{pk}

2.0AMPERES/KBP



KBP005	50	2.0	50	50	10	2.0	1.1
KBP01	100	2.0	50	50	10	2.0	1.1
KBP02	200	2.0	50	50	10	2.0	1.1
KBP04	400	2.0	50	50	10	2.0	1.1
KBP06	600	2.0	50	50	10	2.0	1.1
KBP08	800	2.0	50	50	10	2.0	1.1
KBP10	1000	2.0	50	50	10	2.0	1.1

3.0AMPERES/KBPC-1



KBPC1005	BR305	50	3.0	50	50	10	1.5	1.1
KBPC101	BR31	100	3.0	50	50	10	1.5	1.1
KBPC102	BR32	200	3.0	50	50	10	1.5	1.1
KBPC104	BR34	400	3.0	50	50	10	1.5	1.1
KBPC106	BR36	600	3.0	50	50	10	1.5	1.1
KBPC108	BR38	800	3.0	50	50	10	1.5	1.1
KBPC110	BR310	1000	3.0	50	50	10	1.5	1.1

4.0AMPERES/KBL



RS401L	KBL005	50	4.0	50	200	10	4.0	1.1
RS402L	KBL01	100	4.0	50	200	10	4.0	1.1
RS403L	KBL02	200	4.0	50	200	10	4.0	1.1
RS404L	KBL04	400	4.0	50	200	10	4.0	1.1
RS405L	KBL06	600	4.0	50	200	10	4.0	1.1
RS406L	KBL08	800	4.0	50	200	10	4.0	1.1
RS407L	KBL10	1000	4.0	50	200	10	4.0	1.1

2.0AMPERES/KBJ



KBJ2A	50	2.0	50	50	10	2.0	1.1
KBJ2B	100	2.0	50	50	10	2.0	1.1
KBJ2D	200	2.0	50	50	10	2.0	1.1
KBJ2G	400	2.0	50	50	10	2.0	1.1
KBJ2J	600	2.0	50	50	10	2.0	1.1
KBJ2K	800	2.0	50	50	10	2.0	1.1
KBJ2M	1000	2.0	50	50	10	2.0	1.1

TYPE	Maximum peak Reverse Voltage	Maximum Average Rectified Current @Half-Wave Resistive Load 50Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum reverse Current @PRV @25°C _T A	Maximum Forward voltage @25°C _T A	
	PRV	I _o @ ^T A		I _{FSM}	I _R	I _{FM}	V _{FM}
	V _{pk}	AAV	°C	A _{pk}	μA _{dc}	A _{pk}	V _{pk}

4.0AMPERES/KBJ4



KBJ401	100	4.0	50	200	10	4.0	1.1
KBJ402	200	4.0	50	200	10	4.0	1.1
KBJ404	400	4.0	50	200	10	4.0	1.1
KBJ406	600	4.0	50	200	10	4.0	1.1
KBJ408	800	4.0	50	200	10	4.0	1.1
KBJ410	1000	4.0	50	200	10	4.0	1.1

6.0AMPERES/KBJ6



KBJ601	100	6.0	50	250	10	6.0	1.1
KBJ602	200	6.0	50	250	10	6.0	1.1
KBJ604	400	6.0	50	250	10	6.0	1.1
KBJ606	600	6.0	50	250	10	6.0	1.1
KBJ608	800	6.0	50	250	10	6.0	1.1
KBJ610	1000	6.0	50	250	10	6.0	1.1

10.0 15.0 25.0AMPERES/KBJ(10,15,25)



KBJ(10.15.25)005	50	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
KBJ(10.15.25)01	100	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
KBJ(10.15.25)02	200	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
KBJ(10.15.25)04	400	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
KBJ(10.15.25)06	600	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
KBJ(10.15.25)08	800	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
KBJ(10.15.25)10	1000	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2

4.0AMPERES/RS4



RS401	KBU4A	50	4.0	50	200	10	4.0	1.1
RS402	KBU4B	100	4.0	50	200	10	4.0	1.1
RS403	KBU4D	200	4.0	50	200	10	4.0	1.1
RS404	KBU4G	400	4.0	50	200	10	4.0	1.1
RS405	KBU4J	600	4.0	50	200	10	4.0	1.1
RS406	KBU4K	800	4.0	50	200	10	4.0	1.1
RS407	KBU4M	1000	4.0	50	200	10	4.0	1.1

TYPE	Maximum peak Reverse Voltage	Maximum Average Rectified Current @Half-Wave Resistive Load 50Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum reverse Current @PRV @25°C _T A	Maximum Forward voltage @25°C _T A	
	PRV	I _o @ ¹ A		I _{FSM}	I _R	I _{FM}	V _{FM}
	V _{pk}	AAV	°C	A _{pk}	μA _{dc}	A _{pk}	V _{pk}

6.0AMPERES/RS6



Part No.	Diode	V _{pk}	AAV	°C	A _{pk}	μA _{dc}	I _{FM}	V _{FM}
RS601	KBU6A	50	6.0	50	250	10	6.0	1.1
RS602	KBU6B	100	6.0	50	250	10	6.0	1.1
RS603	KBU6D	200	6.0	50	250	10	6.0	1.1
RS604	KBU6G	400	6.0	50	250	10	6.0	1.1
RS605	KBU6J	600	6.0	50	250	10	6.0	1.1
RS606	KBU6K	800	6.0	50	250	10	6.0	1.1
RS607	KBU6M	1000	6.0	50	250	10	6.0	1.1

8.0AMPERES/RS8



Part No.	Diode	V _{pk}	AAV	°C	A _{pk}	μA _{dc}	I _{FM}	V _{FM}
RS801	KBU8A	50	8.0	50	300	10	8.0	1.1
RS802	KBU8B	100	8.0	50	300	10	8.0	1.1
RS803	KBU8D	200	8.0	50	300	10	8.0	1.1
RS804	KBU8G	400	8.0	50	300	10	8.0	1.1
RS805	KBU8J	600	8.0	50	300	10	8.0	1.1
RS806	KBU8K	800	8.0	50	300	10	8.0	1.1
RS807	KBU8M	1000	8.0	50	300	10	8.0	1.1

4.0AMPERES/GBL



Part No.	V _{pk}	AAV	°C	A _{pk}	μA _{dc}	I _{FM}	V _{FM}
GBL005	50	4.0	50	200	10	4.0	1.1
GBL01	100	4.0	50	200	10	4.0	1.1
GBL02	200	4.0	50	200	10	4.0	1.1
GBL04	400	4.0	50	200	10	4.0	1.1
GBL06	600	4.0	50	200	10	4.0	1.1
GBL08	800	4.0	50	200	10	4.0	1.1
GBL10	1000	4.0	50	200	10	4.0	1.1

4.0 6.0 8.0AMPERES/GBU(4,6,8)



Part No.	V _{pk}	AAV	°C	A _{pk}	μA _{dc}	I _{FM}	V _{FM}
GBU(4.6.8)005	50	4/6/8	50	200	10	4/6/8	1.1
GBU(4.6.8)01	100	4/6/8	50	200	10	4/6/8	1.1
GBU(4.6.8)02	200	4/6/8	50	200	10	4/6/8	1.1
GBU(4.6.8)04	400	4/6/8	50	200	10	4/6/8	1.1
GBU(4.6.8)06	600	4/6/8	50	200	10	4/6/8	1.1
GBU(4.6.8)08	800	4/6/8	50	200	10	4/6/8	1.1
GBU(4.6.8)10	1000	4/6/8	50	200	10	4/6/8	1.1

10.0 15.0 25.0AMPERES/GBU(10,15,25)



Part No.	V _{pk}	AAV	°C	A _{pk}	μA _{dc}	I _{FM}	V _{FM}
GBU(10.15.25)005	50	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
GBU(10.15.25)01	100	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
GBU(10.15.25)02	200	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
GBU(10.15.25)04	400	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
GBU(10.15.25)06	600	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
GBU(10.15.25)08	800	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2
GBU(10.15.25)10	1000	10/15/25	50	240	10	5/7.5/12.5	1.05/1.2

TYPE	Maximum peak Reverse Voltage	Maximum Average Rectified Current @Half-Wave Resistive Load 50Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum reverse Current @PRV @25°C TA	Maximum Forward voltage @25°C TA	
	PRV	I _o @ ¹ A		I _{FSM}	I _R	I _{FM}	V _{FM}
	V _{pk}	AAV	°C	A _{pk}	μA _{dc}	A _{pk}	V _{pk}

6.0AMPERES/KBPC6



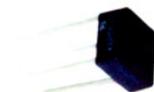
KBPC6005	50	6.0	50	125	10	3.0	1.05
KBPC601	100	6.0	50	125	10	3.0	1.05
KBPC602	200	6.0	50	125	10	3.0	1.05
KBPC604	400	6.0	50	125	10	3.0	1.05
KBPC606	600	6.0	50	125	10	3.0	1.05
KBPC608	800	6.0	50	125	10	3.0	1.05
KBPC610	1000	6.0	50	125	10	3.0	1.05

8.0AMPERES/KBPC8



KBPC8005	50	8.0	50	125	10	4.0	1.05
KBPC801	100	8.0	50	125	10	4.0	1.05
KBPC802	200	8.0	50	125	10	4.0	1.05
KBPC804	400	8.0	50	125	10	4.0	1.05
KBPC806	600	8.0	50	125	10	4.0	1.05
KBPC808	800	8.0	50	125	10	4.0	1.05
KBPC810	1000	8.0	50	125	10	4.0	1.05

10AMPERES/BR-10



BR10005	50	10.0	50	200	10	5.0	1.1
BR1001	100	10.0	50	200	10	5.0	1.1
BR1002	200	10.0	50	200	10	5.0	1.1
BR1004	400	10.0	50	200	10	5.0	1.1
BR1006	600	10.0	50	200	10	5.0	1.1
BR1008	800	10.0	50	200	10	5.0	1.1
BR1010	1000	10.0	50	200	10	5.0	1.1

10AMPERES/KBPC (W)



KBPC10005	50	10.0	55	200	10	5.0	1.1
KBPC1001	100	10.0	55	200	10	5.0	1.1
KBPC1002	200	10.0	55	200	10	5.0	1.1
KBPC1004	400	10.0	55	200	10	5.0	1.1
KBPC1006	600	10.0	55	200	10	5.0	1.1
KBPC1008	800	10.0	55	200	10	5.0	1.1
KBPC1010	1000	10.0	55	200	10	5.0	1.1

TYPE	Maximum peak Reverse Voltage	Maximum Average Rectified Current @Half-Wave Resistive Load 50Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum reverse Current @PRV @25°C _T A	Maximum Forward voltage @25°C _T A	
	PRV	I _o @°A		I _{FSM}	I _R	I _{FM}	V _{FM}
	V _{pk}	AAV	°C	A _{pk}	μA _{dc}	A _{pk}	V _{pk}

15 AMPERES/KBPC15 (W)



KBPC15005	50	15.0	55	300	10	7.5	1.2
KBPC1501	100	15.0	55	300	10	7.5	1.2
KBPC1502	200	15.0	55	300	10	7.5	1.2
KBPC1504	400	15.0	55	300	10	7.5	1.2
KBPC1506	600	15.0	55	300	10	7.5	1.2
KBPC1508	800	15.0	55	300	10	7.5	1.2
KBPC1510	1000	15.0	55	300	10	7.5	1.2

25 AMPERES/KBPC25 (W)



KBPC25005	50	15.0	55	300	10	12.5	1.2
KBPC2501	100	15.0	55	300	10	12.5	1.2
KBPC2502	200	15.0	55	300	10	12.5	1.2
KBPC2504	400	15.0	55	300	10	12.5	1.2
KBPC2506	600	15.0	55	300	10	12.5	1.2
KBPC2508	800	15.0	55	300	10	12.5	1.2
KBPC2510	1000	15.0	55	300	10	12.5	1.2

35 AMPERES/KBPC35 (W)



KBPC35005	50	35.0	55	400	10	17.5	1.2
KBPC3501	100	35.0	55	400	10	17.5	1.2
KBPC3502	200	35.0	55	400	10	17.5	1.2
KBPC3504	400	35.0	55	400	10	17.5	1.2
KBPC3506	600	35.0	55	400	10	17.5	1.2
KBPC3508	800	35.0	55	400	10	17.5	1.2
KBPC3510	1000	35.0	55	400	10	17.5	1.2

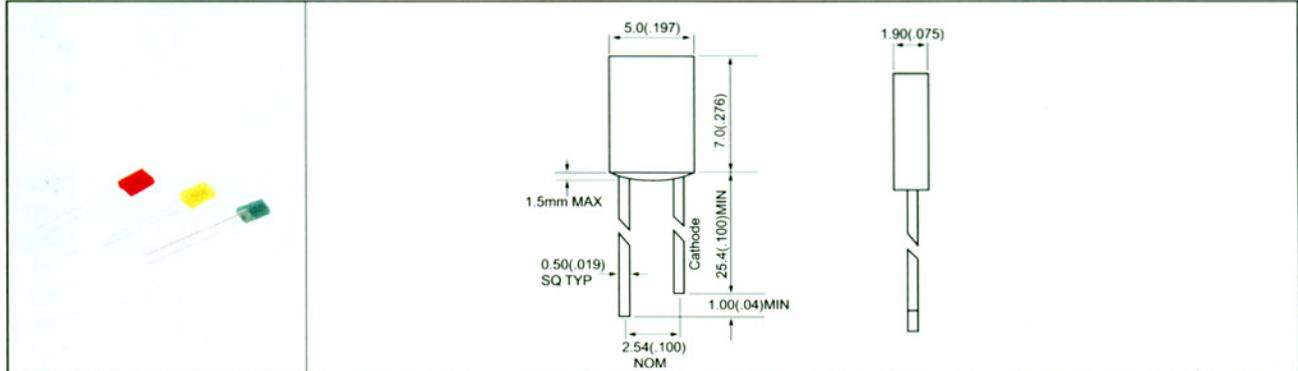
50 AMPERES/KBPC50 (W)



KBPC50005	50	50.0	55	500	10	25.0	1.2
KBPC5001	100	50.0	55	500	10	25.0	1.2
KBPC5002	200	50.0	55	500	10	25.0	1.2
KBPC5004	400	50.0	55	500	10	25.0	1.2
KBPC5006	600	50.0	55	500	10	25.0	1.2
KBPC5008	800	50.0	55	500	10	25.0	1.2
KBPC5010	1000	50.0	55	500	10	25.0	1.2

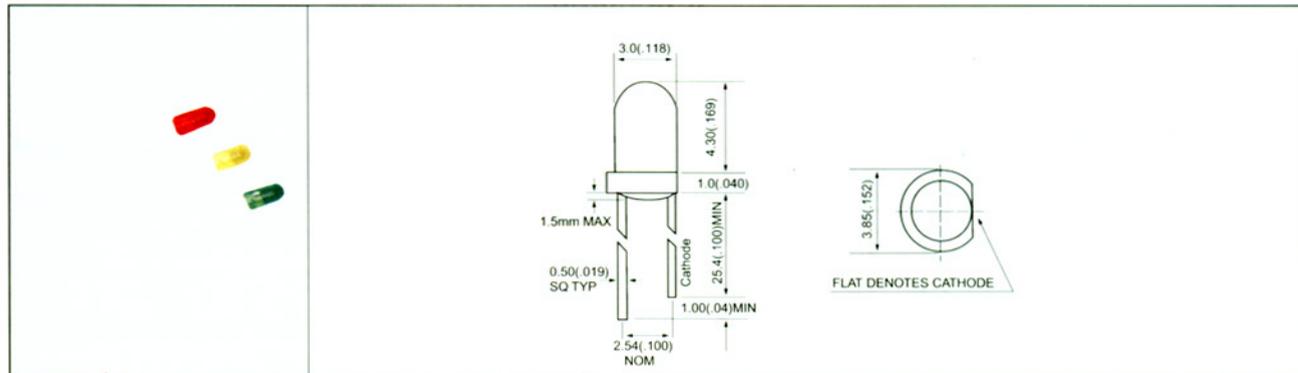
LED LAMP

FC-C-0233(L-4033xx) 2.0*5.0*7.0* mm Dia RECTANGULAR LED LAMP



Part No.	Chip		Lens Color	Wave Length λp (nm)	Electro-Optical Characteristics			View Angle (deg)	
	Raw Material	Emitted Color			Vf(V)20mA		Iv(mcd)20mA		
					Typ.	Max.	Typ.		
FC-C-0233	L-403GD	Gap	Green	Green Diffused	565	2.1	2.8	8.0	120
	L-403YD	GaAsP/Gap	Yellow	Yellow Diffused	585	2.1	2.8	8.0	120
	L-403ED	GaAsP/Gap	Hi.effi Red	Red Diffused	635	2.0	2.8	10.0	120

FC-C-0234(L-314xx) 3.0mm Dia LED LAMP



Part No.	Chip		Lens Color	Wave Length λp (nm)	Electro-Optical Characteristics			View Angle (deg)	
	Raw Material	Emitted Color			Vf(V)20mA		Iv(mcd)20mA		
					Typ.	Max.	Typ.		
FC-C-0234	L-314HD	Gap	Red	Red Diffused	700	2.1	2.8	6.0	60
	L-314ED	GaAsP/Gap	Hi.effi Red	Red Diffused	635	2.0	2.8	20.0	60
	L-314YT	GaAsP/Gap	Yellow	Y.Transparent	590	2.1	2.8	20.0	30
	L-314GC	Gap	Green	Water Clear	570	2.1	2.8	30.0	30

FC-C-0235 (L-513XX) 5.0mm Dia LED LAMP

Part No.		Chip		Lens Color	Wave Length λ_p (nm)	Electro-Optical Characteristics			View Angle (deg)
		Raw Material	Emitted Color			Vf(V)20mA		Iv(mcd)20mA	
						Typ.	Max.	Typ.	
FC-C-0235	L-513HD	Gap	Red	Red Diffused	700	2.1	2.8	7.5	20
	L-513GD	Gap	Green	Green Diffused	565	2.1	2.8	15.0	20
	L-513YD	GaAsP/Gap	Yellow	Yellow Diffused	585	2.1	2.8	20.0	20
	L-513ED	GaAsP/Gap	Hi.effi Red	Red Diffused	635	2.0	2.8	20.0	20
	L-513GT	Gap	Green	G.Transparent	565	2.1	2.8	20.0	30
	L-513YT	GaAsP/Gap	Yellow	Y.Transparent	585	2.1	2.8	20.0	30
	L-513ET	GaAsP/Gap	Hi.effi Red	R.Transparent	635	2.0	2.8	45.0	30

FC-C-0236 (L-517XX-F) 5.0mm Dia BLINKING LED LAMP

Part No.		Chip		Lens Color	Wave Length λ_p (nm)	Electro-Optical Characteristics			View Angle (deg)
		Raw Material	Emitted Color			Vf(V)20mA		Iv(mcd)20mA	
						Typ.	Max.	Typ.	
FC-C-0236	L-517GD-F	Gap	Green	Green Diffused	565	3.0	12	15.0	120
	L-517YD-F	GaAsP/Gap	Yellow	Yellow Diffused	585	3.0	12	20.0	120
	L-517ED-F	GaAsP/Gap	Hi.effi Red	Red Diffused	635	3.0	12	20.0	120

FC-C-0237 (L-513EXX) 5.0mm Dia LED LAMP

Part No.		Chip		Lens Color	Wave Length λ_p (nm)	Electro-Optical Characteristics			View Angle (deg)
		Raw Material	Emitted Color			Vf(V)20mA		Iv(mcd)20mA	
						Typ.	Max.	Typ.	
FC-C-0237	L-513SRD	GaA1As	Super Red	Red Diffused	660	1.8	2.4	200	20
	L-513SRT	GaA1As	Super Red	R.Transparent	660	1.8	2.4	250	30
	L-513SRC	GaA1As	Hi.effi Red	Water Clear	660	1.8	2.4	500	30

FC-C-0238 (L-517EXX) 2.0*5.0*7.0mm Dia LED LAMP DUAL CHIP (BI POLAR)

		<table border="1"> <thead> <tr> <th rowspan="2">Part No.</th> <th colspan="2">Chip</th> <th rowspan="2">Lens Color</th> <th rowspan="2">Wave Length λp(nm)</th> <th colspan="3">Electro-Optical Characteristics</th> <th rowspan="2">View Angle (deg)</th> </tr> <tr> <th>Raw Material</th> <th>Emitted Color</th> <th colspan="2">Vf(V)20mA</th> <th>Iv(mcd)20mA</th> </tr> </thead> <tbody> <tr> <td rowspan="2">FC-C-0238</td> <td>L-517EGW</td> <td>GaAs/Gap</td> <td>Hi. effi Red</td> <td rowspan="2">White Diffused</td> <td rowspan="2">635</td> <td rowspan="2">2.0</td> <td rowspan="2">2.8</td> <td rowspan="2">20.0</td> </tr> <tr> <td></td> <td>Gap</td> <td>Green</td> <td>565</td> <td>2.1</td> <td>2.8</td> <td>15.0</td> </tr> </tbody> </table>		Part No.	Chip		Lens Color	Wave Length λp (nm)	Electro-Optical Characteristics			View Angle (deg)	Raw Material	Emitted Color	Vf(V)20mA		Iv(mcd)20mA	FC-C-0238	L-517EGW	GaAs/Gap	Hi. effi Red	White Diffused	635	2.0	2.8	20.0		Gap	Green	565	2.1
Part No.	Chip		Lens Color		Wave Length λp (nm)	Electro-Optical Characteristics			View Angle (deg)																						
	Raw Material	Emitted Color		Vf(V)20mA		Iv(mcd)20mA																									
FC-C-0238	L-517EGW	GaAs/Gap	Hi. effi Red	White Diffused	635	2.0	2.8	20.0																							
		Gap	Green						565	2.1	2.8	15.0																			

FC-C-0239 (L-519XX) 5.0mm Dia LED LAMP MULTI-COLOR

		<table border="1"> <thead> <tr> <th rowspan="2">Part No.</th> <th colspan="2">Chip</th> <th rowspan="2">Lens Color</th> <th rowspan="2">Wave Length λp(nm)</th> <th colspan="3">Electro-Optical Characteristics</th> <th rowspan="2">View Angle (deg)</th> </tr> <tr> <th>Raw Material</th> <th>Emitted Color</th> <th colspan="2">Vf(V)20mA</th> <th>Iv(mcd)20mA</th> </tr> </thead> <tbody> <tr> <td rowspan="2">FC-C-0239</td> <td>L-519EGW</td> <td>GaAs/Gap</td> <td>Hi. effi Red</td> <td rowspan="2">White Diffused</td> <td rowspan="2">635</td> <td rowspan="2">2.0</td> <td rowspan="2">2.8</td> <td rowspan="2">20.0</td> </tr> <tr> <td></td> <td>Gap</td> <td>Green</td> <td>565</td> <td>2.1</td> <td>2.8</td> <td>15.0</td> </tr> </tbody> </table>		Part No.	Chip		Lens Color	Wave Length λp (nm)	Electro-Optical Characteristics			View Angle (deg)	Raw Material	Emitted Color	Vf(V)20mA		Iv(mcd)20mA	FC-C-0239	L-519EGW	GaAs/Gap	Hi. effi Red	White Diffused	635	2.0	2.8	20.0		Gap	Green	565	2.1
Part No.	Chip		Lens Color		Wave Length λp (nm)	Electro-Optical Characteristics			View Angle (deg)																						
	Raw Material	Emitted Color		Vf(V)20mA		Iv(mcd)20mA																									
FC-C-0239	L-519EGW	GaAs/Gap	Hi. effi Red	White Diffused	635	2.0	2.8	20.0																							
		Gap	Green						565	2.1	2.8	15.0																			

FC-C-0240 (L-813XX) 8.0mm Dia LED LAMP

		<table border="1"> <thead> <tr> <th rowspan="2">Part No.</th> <th colspan="2">Chip</th> <th rowspan="2">Lens Color</th> <th rowspan="2">Wave Length λp(nm)</th> <th colspan="3">Electro-Optical Characteristics</th> <th rowspan="2">View Angle (deg)</th> </tr> <tr> <th>Raw Material</th> <th>Emitted Color</th> <th colspan="2">Vf(V)20mA</th> <th>Iv(mcd)20mA</th> </tr> </thead> <tbody> <tr> <td rowspan="3">FC-C-0240</td> <td>L-813GD</td> <td>Gap</td> <td>Green</td> <td>Green Diffused</td> <td>565</td> <td>2.1</td> <td>2.8</td> <td>15.0</td> </tr> <tr> <td>L-813YD</td> <td>GaAsP/Gap</td> <td>Yellow</td> <td>Yellow Diffused</td> <td>585</td> <td>2.1</td> <td>2.8</td> <td>15.0</td> </tr> <tr> <td>L-813ED</td> <td>GaAsP/Gap</td> <td>Hi. effi Red</td> <td>Red Diffused</td> <td>635</td> <td>2.0</td> <td>2.8</td> <td>20.0</td> </tr> </tbody> </table>		Part No.	Chip		Lens Color	Wave Length λp (nm)	Electro-Optical Characteristics			View Angle (deg)	Raw Material	Emitted Color	Vf(V)20mA		Iv(mcd)20mA	FC-C-0240	L-813GD	Gap	Green	Green Diffused	565	2.1	2.8	15.0	L-813YD	GaAsP/Gap	Yellow	Yellow Diffused	585	2.1	2.8	15.0	L-813ED	GaAsP/Gap	Hi. effi Red	Red Diffused	635	2.0
Part No.	Chip		Lens Color		Wave Length λp (nm)	Electro-Optical Characteristics			View Angle (deg)																															
	Raw Material	Emitted Color		Vf(V)20mA		Iv(mcd)20mA																																		
FC-C-0240	L-813GD	Gap	Green	Green Diffused	565	2.1	2.8	15.0																																
	L-813YD	GaAsP/Gap	Yellow	Yellow Diffused	585	2.1	2.8	15.0																																
	L-813ED	GaAsP/Gap	Hi. effi Red	Red Diffused	635	2.0	2.8	20.0																																

FC-C-0241 (L-833XX) 10.0mm Dia LED LAMP

		Part No.	Chip		Lens Color	Wave Length λ_p (nm)	Electro-Optical Characteristics		
Raw Material	Emitted Color		Vf(V)20mA				Iv(mcd)20mA		
FC-C-0241	L-833GD	Gap	Green	Green Diffused	565	Typ. 2.1	Max. 2.8	15.0	60
	L-833YD	GaAsP/Gap	Yellow	Yellow Diffused	585	Typ. 2.1	Max. 2.8	15.0	60
	L-833ED	GaAsP/Gap	Hi.effi Red	Red Diffused	635	Typ. 2.0	Max. 2.8	20.0	60

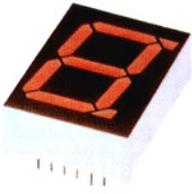
5.0mm INFRARED EMITTING DIODE

					Vf(V)	Power(mw/sr)		Viewing Angle $2\theta_{1/2}$
						I _f =20mA	I _f (mA)	
FC-C-0242	LIR50333	GaA/As	940	Water Clear	1.2	20	11.0	30°

5.0mm PHOTO TRANSISTOR

					BV _{CEO} min.(V)	V _{CE} (SAT)		Lc(on)	
						E _e =mW/cm ²	Max.(V)	E _e =mW/cm ²	Min.(MA)
FC-C-0243	LPT50313	Silicon	Water Clear	30	1	0.4	1	0.7	

FC-C-0244 Single Digit Display



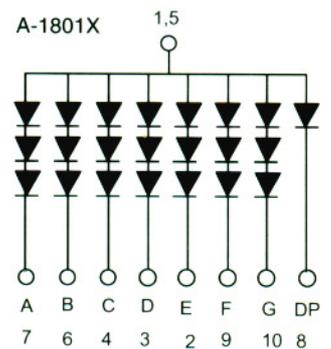
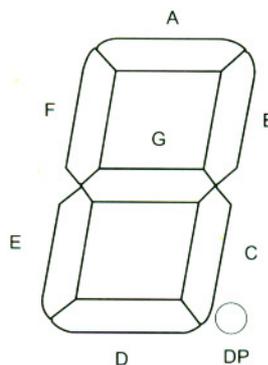
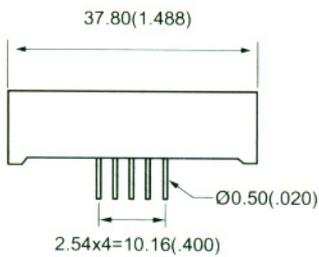
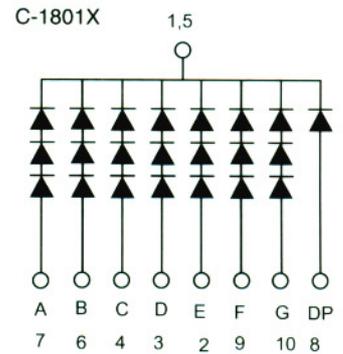
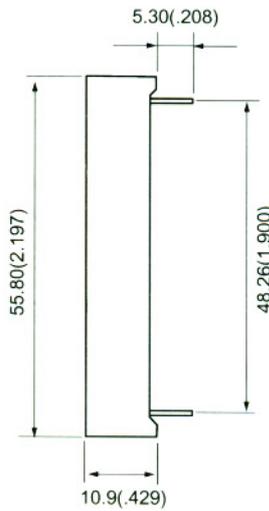
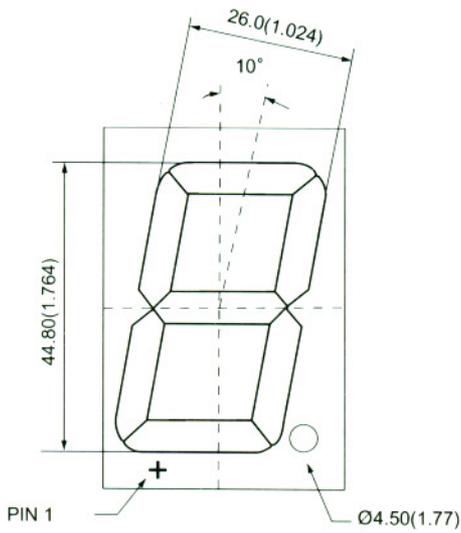
Part No.		Chip		Wave Length	Electro-Optical Characteristics		
Common Cathode	Common Anode	Raw Material	Emitted Color	λ_p (nm)	Vf(V)20mA		Iv(ucd)10mA
					Typ.	Max.	Typ.
C-1801H	A-1801H	Gap	Red	700	6.3	8.4	1400
C-1801E	A-1801E	GaAsP/Gap	Hi.effi Red	635	6.0	8.4	5600
C-1801G	A-1801G	Gap	Green	565	6.3	8.4	5200
C-1801Y	A-1801Y	GaAsP/Gap	Yellow	585	6.3	8.4	5200
C-1801SR	A-1801SR	GaAlAs	Super Red	660	5.4	7.2	40000

E-mail: ceiecz@public.cz.js.cn

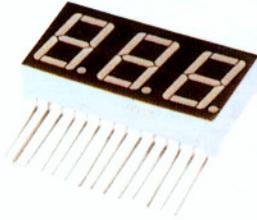
Http://www.ceiecz.com

Tel: +86-519-6600389

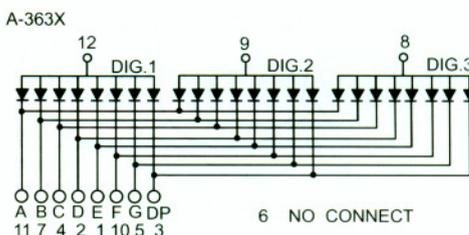
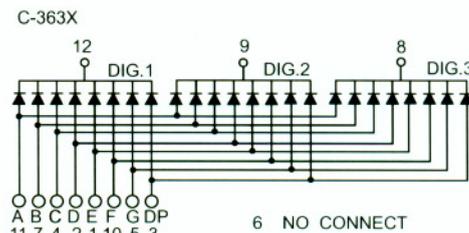
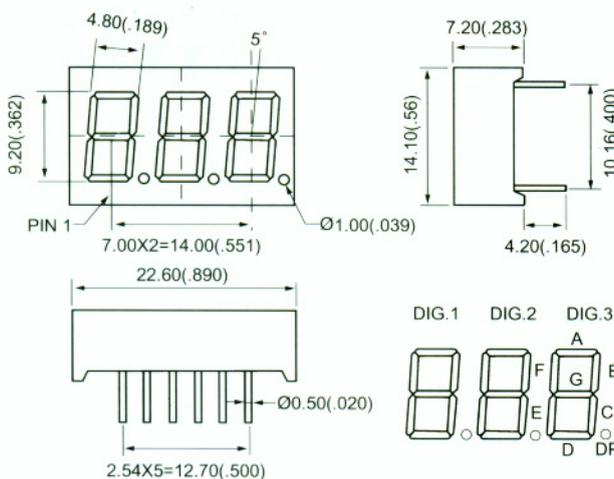
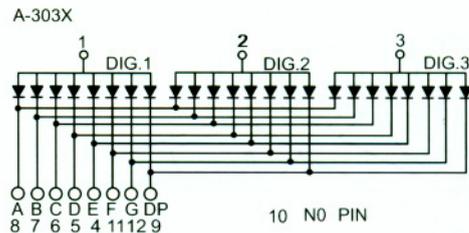
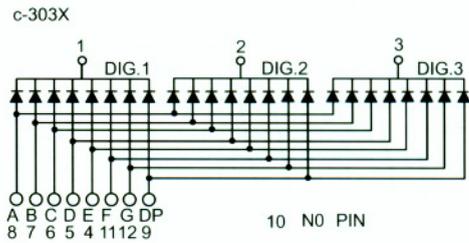
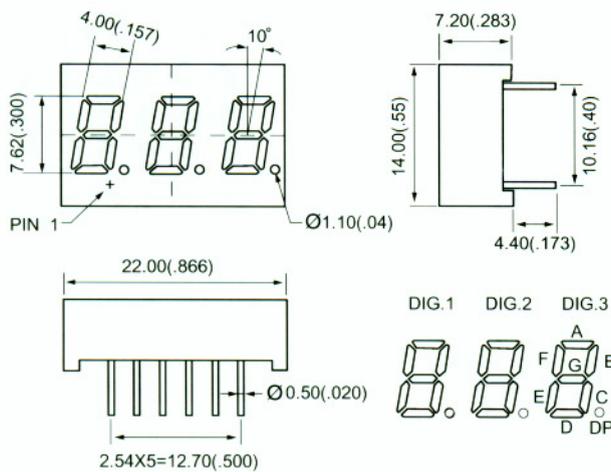
Fax: +86-519-6607378, 6606496



FC-C-0245 Three Digits Display

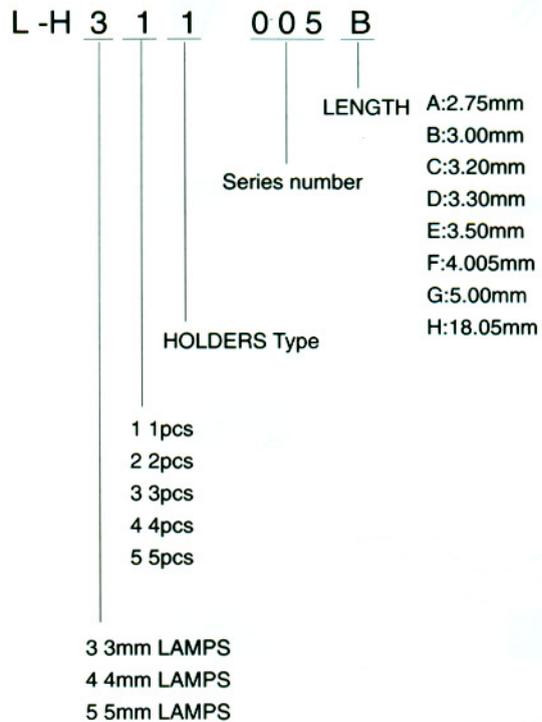
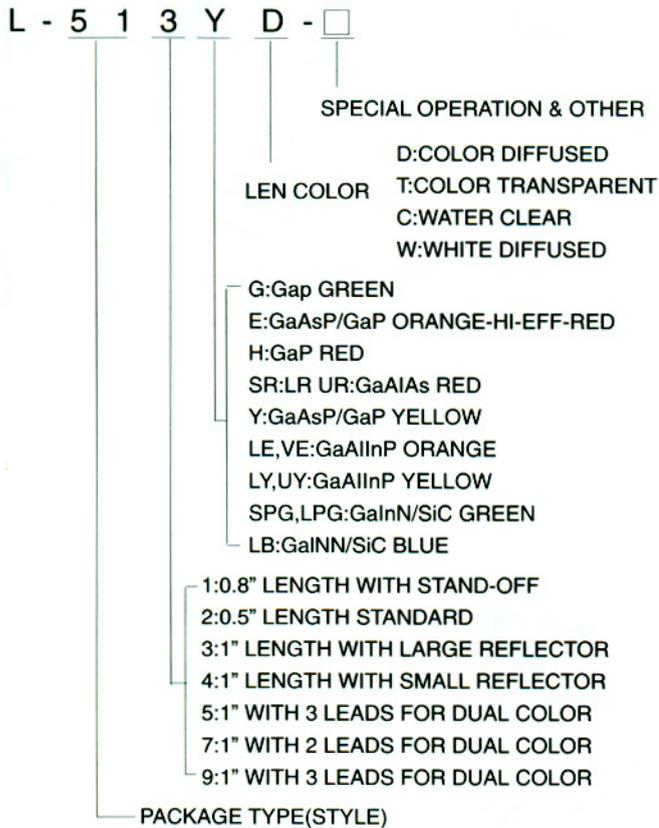


Part No.		Chip		Wave Length	Electro-Optical Characteristics		
Common Cathode	Common Anode	Raw Material	Emitted Color	λ p(nm)	Vf(V)20mA		Iv(ucd)10mA
					Typ.	Max.	Typ.
C-303H	A-303H	Gap	Red	700	2.1	2.8	550
C-303E	A-303E	GaAsP/Gap	Hi.effi Red	635	2.0	2.8	1800
C-303G	A-303G	Gap	Green	565	2.1	2.8	1600
C-303Y	A-303Y	GaAsP/Gap	Yellow	585	2.1	2.8	1500
C-303SR	A-303SR	GaA1As	Super Red	660	1.8	2.4	5000
C-363H	A-363H	Gap	Red	700	2.1	2.8	550
C-363E	A-363E	GaAsP/Gap	Hi.effi Red	635	2.0	2.8	1800
C-363G	A-363G	Gap	Green	565	2.1	2.8	1600
C-363Y	A-363Y	GaAsP/Gap	Yellow	585	2.1	2.8	1500
C-363SR	A-363SR	GaA1As	Super Red	660	1.8	2.4	5000

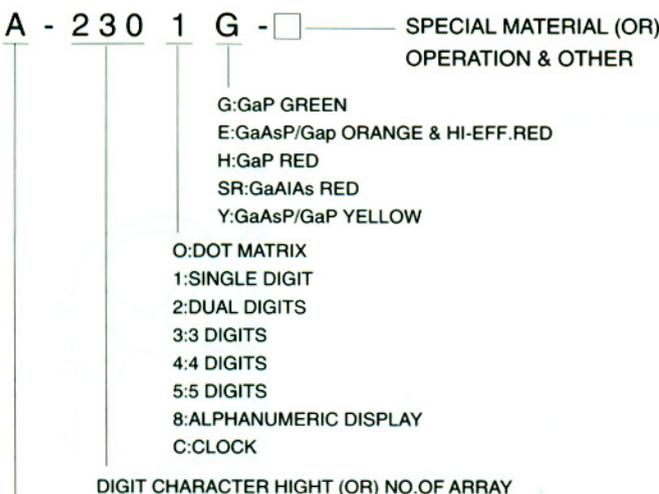


LED & DIGIT DISPLAY

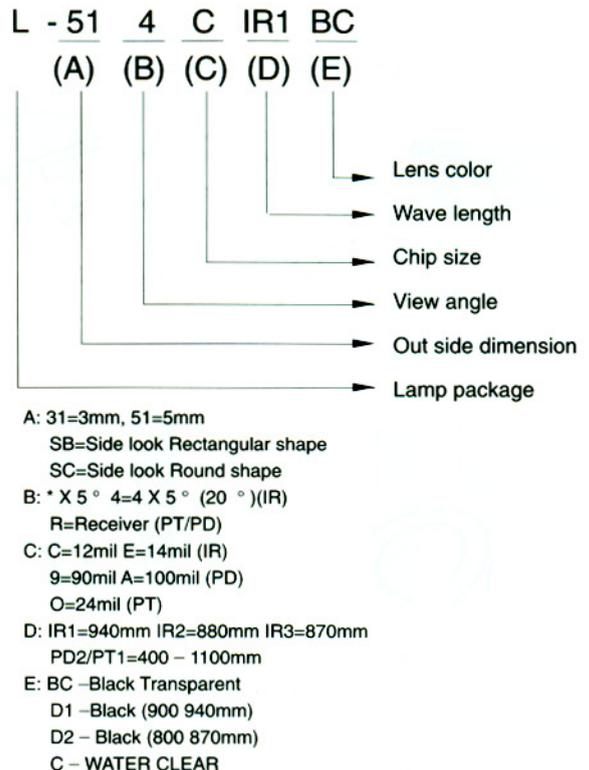
LED LAMPS:



LED DISPLAYS



IR / PT / PD:



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- C: COMMON CATHODE
- A: COMMON ANODE
- O: OVER FLOW
- S: SPECIAL DESIGN
- B: BAR
- R: ROUND
- K: BACK LIGHT
- M: MODULE DISPLAY & LAMP



Schedule of Aluminum Electrolytic Capacitors' Variety

Miniature Aluminum Electrolytic Capacitors

Class	Type		Features	Temperature (°C)	Rated Voltage (V.D.C)	Capacitance(μF)	Load Life
Minuteness	FC-C0246	SM	5mmL, Standard	-40~+85	4~50	0.1~470	1000Hrs
	FC-C0247	LM	5mmL, Low Leakage Current	-40~+85	6.3~63	0.1~100	1000Hrs
	FC-C0248	NM	5mmL, Nonpolar	-40~+85	6.3~50	0.1~47	1000Hrs
	FC-C0249	KF	5mmL, +105°C	-40~+105	4~50	0.1~100	1000Hrs
Ultra-Miniature	FC-C0250	SX	7mmL, Standard	-40~+85	6.3~63	0.1~470	1000Hrs
	FC-C0251	SS	7mmL, High CV	-40~+85	6.3~63	0.1~470	1000Hrs
	FC-C0252	NS	7mmL, Nonpolar	-40~+85	6.3~63	0.1~100	1000Hrs
	FC-C0253	KS	7mmL, +105°C	-40~+105	6.3~63	0.1~220	1000Hrs
General-utility	FC-C0254	GM	General product	-40~+85	6.3~450	0.1~33000	1000Hrs
	FC-C0255	ST	Miniaturized, high ripple current	-40~+85	6.3~400	0.1~33000	1000Hrs
	FC-C0256	GR	Standard	-40~+85	6.3~450	0.1~33000	1000Hrs
	FC-C0257	GS	Small size, long life	-40~+85	6.3~450	0.1~15000	2000Hrs
	FC-C0258	KM	+105°C, Standard	-40~+105	6.3~400	0.1~10000	1000Hrs
	FC-C0259	RL	+105°C, log life	-40~+105	6.3~400	0.1~15000	2000Hrs
Low impedance	FC-C0260	SF	Low impedance	-40~+85	6.3~450	0.47~15000	1000Hrs
	FC-C0261	GE	+105°C, Low impedance	-40~+105	6.3~450	0.47~15000	1000Hrs
	FC-C0262	GZ	Long life, Low impedance	-40~+85	6.3~450	0.47~15000	2000Hrs
	FC-C0263	GL	+105°C, Long life, Low impedance	-40~+105	6.3~450	0.47~15000	2000Hrs
Special Type	FC-C0264	GF	High frequency, Low ESR	-40~+105	6.3~50	4.7~4700	2000Hrs
	FC-C0265	LK	Low Leakage Current, Standard	-40~+85	6.3~100	0.1~3300	1000Hrs
	FC-C0266	LL	+105°C, Low Leakage Current	-40~+105	6.3~100	0.1~3300	1000Hrs
	FC-C0267	NP	Nonpolar, Standard	-40~+85	6.3~100	0.47~6800	1000Hrs
	FC-C0268	NH	Nonpolar, Speaker	-40~+85	6.3~50	1~22	1000Hrs
	FC-C0269	NE	Nonpolar, Horizontal deflection	-40~+85	25~100	1~15	1000Hrs
	FC-C0270	PF	Photo flash use	-20~+55	330	40~250	5000Times

Large Aluminum Electrolytic Capacitors

Class	Type		Features	Temperature (°C)	Rated Voltage (V.D.C)	Capacitance(μF)	Load Life
Large	FC-C0271	AP	Lug, Standard	-25~+85	160~400	100~680	1000Hrs
	FC-C0272	BP	4 Snap-in standard	-25~+85	160~400	100~1000	1000Hrs
	FC-C0273	CP	Snap-in Standard	-25~+85	16~450	47~68000	1000Hrs
	FC-C0274	DP	Snap-in, +105°C, Standard	-40~+105	10~400	39~22000	1000Hrs
	FC-C0275	GP	Snap-in, +105°C, Long life	-40~+105	10~450	39~22000	2000Hrs
	FC-C0276	LP	Snap-in, Long Life Large Capacity	-40~+85	16~450	47~68000	2000Hrs
	FC-C0277	GN	Screw, Low voltage Large capacity	-40~+85	6.3~100	2200~1000000	1000Hrs
	FC-C0278	WN	Screw, High voltage Large capacity	-40~+85	160~450	220~18000	1000Hrs
	FC-C0279	IN	Lug or screw, Frequency converter air-conditioner	-25~+85	250~450	220~2500	1000Hrs
	FC-C0280	MN	Lug, motor starting, high ripple current	-20~+65	110~300	25~400	7500Times

FC-C-0254 (GM)

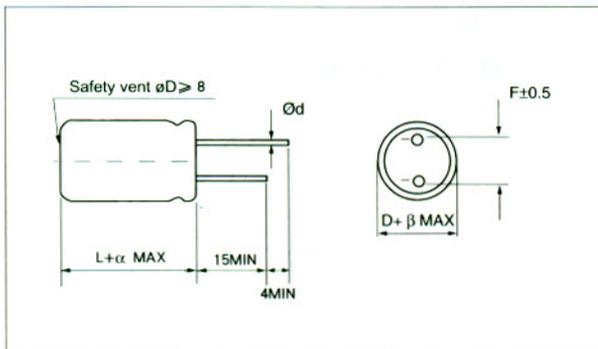
For general purpose

Used in white- black TVs, radio cassette recorders, telephone circuits, etc.

Item	Performance Characteristics													
	Operating temperature range	-40~+85°C	-25~+85°C											
Rated voltage range	6.3~100V	160~450V												
Nominal capacitance range	0.1~33000μF													
Capacitance tolerance	±20%(100Hz, +20°C)													
Leakage current	≤0.02CV(μA) or 5μA (1 minute) (whichever is greater)	≤0.03CV (μA)+40μA (1 minute)												
Dissipation factor (+20°C, 100Hz)	U _R (V)	6.3 10 16 25 35 50 63 100 160 200 250 400 450												
	tgδ	0.28 0.24 0.20 0.16 0.14 0.12 0.10 0.10 0.20 0.20 0.20 0.25 0.25												
Temperature Characteristics (Impedance ratio at 100Hz)	For capacitance Value>1000μF, add 0.02 per another 1000μF													
	U _R (V)	6.3	10	16	25	35	50	63	100	160	200	250	400	450
	Z-25°C / Z+20°C	5	4	3	2	2	2	2	2	3	3	4	8	10
Z-40°C / Z+20°C	12	10	8	5	4	3	3	3						
Load life	After applying rated voltage for 1000 hours at +85°C and then resumed 16 hours; Capacitance change: ±20% Initial measured value Leakage current: ≤Initial specified value Dissipation factor : ≤2 Initial specified value													
	After storage for 500 hours at +85°C and then resumed 16 hours; Capacitance change: ±20% Initial measured value Leakage current: ≤2 Initial specified value Dissipation factor : ≤2 Initial specified value													

Case Size Table

Unit:mm



D	5	6	8	10	12	13	14	16	19	22	25
F	2	2.5	3.5		5.0			7.5	10	12.5	
d	0.5	0.5,06			0.6			0.8		1.0	

α MAX	(L < 20) 1.5
	(L > 20) 2.0

β MAX	(D < 20) 0.5
	(D > 20) 1.0

Dimensions

øDxL(mm)

C _R (μF)	U _R Code	6.3V	10V	16V	25V	35V	50V	63V	100V	160V
		0J	1A	1C	1E	1V	1H	1J	2A	2C
0.1	0R1						5x11	5x11		
0.22	R22						5x11	5x11		
0.33	R33						5x11	5x11		
0.47	R47						5x11	5x11		
1	010						5x11	5x11	5x11	5x11
2.2	2R2						5x11	5x11	5x11	6x11
3.3	3R3				5x11	5x11	5x11	5x11	5x11	8x11
4.7	4R7			5x11	5x11	5x11	5x11	5x11	5x11	8x11
10	100			5x11	5x11	5x11	5x11	5x11	6x11	10x13
22	220		5x11	5x11	5x11	5x11	5x11/6x11	6x11	8x11	10x16
33	330	5x11	5x11	5x11	5x11	5x11	6x11	8x11	8x14	10x20
47	470	5x11	5x11	5x11	5x11	6x11	6x12	8x12	10x13	13x20
100	101	5x11	5x11	5x11/6x11	6x11	8x11	8x12	10x13	10x20	16x25
120	121				6x11					
150	151				8x11					
220	221	5x11	5x12/6x11	6x11	8x11	8x16/10x13	10x16	10x20	13x25	19x30
330	331	6x11	6x11	8x11	8x12	10x14	10x20	12x20	16x25	19x40
470	471	6x12	6x12/8x11	8x11	8x14/8x16	10x16	12x20	12x25/13x25	16x30	22x40
680	681		8x12							
1000	102	8x12	8x12	8x17/10x13	10x17/10x20	13x20	13x25/14x25	16x25	19x40	25x50
1500	152	8x16	10x14	10x20			16x25			
2200	222	10x14	12x20	10x23/13x17	12x25/13x20	16x25	16x35/19x30	19x35	22x50/25x40	
3300	332	10x20	12x20	12x25	16x20/16x25	19x30	19x35	22x40	25x50	
4700	472	12x20	12x25	16x25	16x30	19x30/19x35/22x30	22x40/22x42	22x50		
6800	682	12x25	14x25	16x30	19x30	22x40	22x50/25x40	25x50		
10000	103	16x25	16x25	16x35	19x40	22x40/22x50	25x50			
15000	153	16x25	19x35	22x35/25x30	22x50/25x40	25x50				
22000	223	19x40	22x35	22x50	25x50					
33000	333	22x50/25x40	22x50/25x40	25x50						

øDxL(mm)

C _R (μF)	U _R Code	200V	250V	400V	450V
		2D	2E	2G	2W
0.1	0R1				
0.22	R22				
0.33	R33				
0.47	R47	6x11	6x11		
1	010	6x11	6x11	8x12	8x12
2.2	2R2	6x11	6x11	10x12	10x12
3.3	3R3	6x11	8x12	10x12	10x16
4.7	4R7	8x12	8x12	10x16	10x20
10	100	10x12	10x16	13x20	13x20
22	220	10x20	13x20	16x25	16x25
33	330	13x20	13x20	16x30	16x35
47	470	13x20	13x25	16x35	19x40/22x30
100	101	16x30	16x30	22x40/25x30	22x40
220	221	19x35	18x40/22x30	25x50	
330	331	22x40/25x30	22x50/25x30		
470	471	22x50/25x40	25x50		

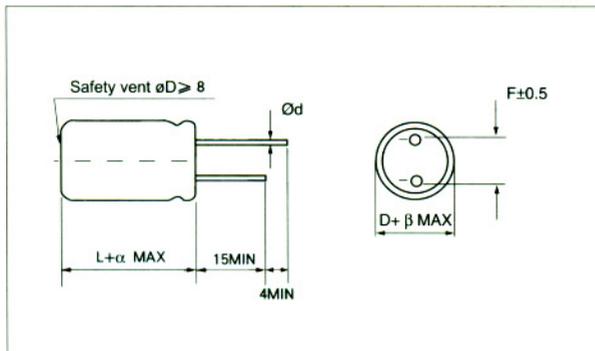
FC-C-0255 (ST)

85°C, 1000Hrs, Miniaturized, High ripple current
Used in DVD, audio sets, color display circuits etc.

Item	Performance Characteristics												
	-40~+85°C						-25~+85°C						
Operating temperature range	-40~+85°C						-25~+85°C						
Rated voltage range	6.3~100V						160~400V						
Nominal capacitance range	0.1~33000μF												
Capacitance tolerance	±20%(100Hz,20°C)												
Leakage current	≤0.01CV(μA) or 3μA after 1 minute (whichever is greater)						≤0.02CV (μA)+10μA after 1 minute						
Dissipation factor (+20°C,100Hz)	U _R (V)	6.3	10	16	25	35	50	63	100	160	200	250	400
	tgδ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.20	0.20	0.25
For capacitance Value>1000μF, add 0.02 per another 1000μF													
Temperature characteristics (Impedance ratio at 100Hz)	U _R (V)	6.3	10	16	25	35	50	63	100	160-200	250	400	
	Z-25°C / Z+20°C	5	4	3	2	2	2	2	2	3	4	6	
	Z-40°C / Z+20°C	12	10	8	5	4	3	3	3	4	8	10	
For capacitance value >1000μF, Add 0.5 per another1000μF for Z-25°C / Z+20°C For capacitance value >1000μF, Add 1.0 per another1000μF for Z-40°C / Z+20°C													
Load life	After applying rated voltage for 1000 hours at +85°C and then resumed 16 hours; Capacitance change: ±20% Initial measured value Leakage current: < Initial specified value Dissipation factor: < 2 Initial specified value												
Shelf life	After storage for 500 hours at +85°C and then resumed 16 hours; Capacitance change:±20% Initial measured value Leakage current: < 2 Initial specified value Dissipation factor: < 2 Initial specified value												

Case Size Table

unit:mm



D	5	6.3	8	10	13	16	18	22	25
F	2	2.5	3.5	5.0	7.5	10	12.5		
d	0.5	0.5,06	0.6	0.8	1.0				

α MAX	(L < 20) 1.5
	(L > 20) 2.0

β MAX	(D < 20) 0.5
	(D > 20) 1.0

Dimensions

øDxL(mm)

Cr(μF)	UR	Code	6.3V		10V		16V		25V		35V		50V	
			0J		1A		1C		1E		1V		1H	
0.1	0R1												5x11	1.1
0.22	R22												5x11	2.3
0.33	R33												5x11	3.5
0.47	R47												5x11	5
1	010												5x11	10
2.2	2R2												5x11	23
3.3	3R3												5x11	35
4.7	4R7								5x11	30	5x11	35	5x11	40
10	100						5x11	40	5x11	50	5x11	55	5x11	60
22	220	5x11	35	5x11	55	5x11	75	5x11	80	5x11	85	5x11	5x11	95
33	330	5x11	55	5x11	80	5x11	80	5x11	95	5x11	105	6.3x11	120	120
47	470	5x11	75	5x11	95	5x11	110	5x11	115	5x11	130	6.3x11	155	155
100	101	5x11	130	5x11	145	5x11	160	6.3x11	190	6.3x11	210	8x12	260	260
220	221	5x11	200	6.3x11	230	6.3x11	260	8x12	330	10x13	385	10x13	410	410
330	331	6.3x11	270	6.3x11	290	8x12	370	10x13	440	10x13	470	10x16	520	520
470	471	6.3x11	320	8x12	350	8x12	440	10x13	520	10x16	580	13x20	740	740
1000	103	8x12	540	10x13	620	10x16	710	10x20	830	13x20	1000	13x25	1100	1100
2200	222	10x20	900	10x20	970	13x20	1150	13x25	1300	16x25	1550			
3300	332	10x20	1050	13x20	1250	13x25	1400	16x25	1650	16x35	1950			
4700	472	13x20	1350	13x25	1500	16x25	1700	16x35	2050	19x35	2400			
6800	682	13x25	1600	16x25	1850	16x35	2150	19x35	2550	22x35	3000			
10000	103	16x25	2000	16x35	2350	19x35	2700	22x40	3000	22x50	3700			
15000	153	16x25	2550	18x35	2950	22x40	3400	22x50	3800	25x50	4300			
22000	223	18x40	3200	22x40	3700	22x50	4200	25x50	4500					
33000	333	22x50	3900	25x50	4500	25x50	4800							

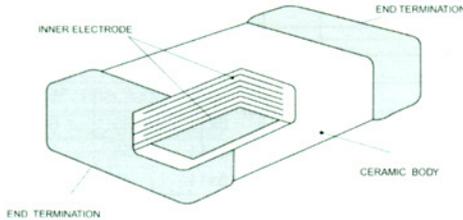
øDxL(mm)

Cr(μF)	UR	Code	63V		100V		160V		200V		250V		400V	
			1J		2A		2C		2D		2E		2G	
0.1	0R1				5x11	2.1								
0.22	R22				5x11	4.7								
0.33	R33				5x11	7								
0.47	R47				5x11	10	6.3x11	12	6.3x11	12	6.3x11	12		
1	010				5x11	21	6.3x11	17	6.3x11	17	6.3x11	17	8x12	18
2.2	2R2				5x11	30	6.3x11	26	6.3x11	26	6.3x11	26	10x13	28
3.3	3R3				5x11	40	6.3x11	29	6.3x11	29	8x12	33	10x13	32
4.7	4R7				5x11	45	6.3x11	34	8x12	39	8x12	39	10x16	41
10	100	5x11	65	6.3x11	75	8x12	58	10x13	61	10x16	64	13x20	70	70
22	220	5x11	100	8x12	130	10x16	95	10x20	99	13x20	110	16x25	120	120
33	330	6.3x11	140	8x12	180	10x20	120	13x20	140	13x20	140	16x30	140	140
47	470	6.3x11	170	10x13	230	13x20	160	13x20	160	13x25	170	16x35	160	160
100	101	10x13	300	10x20	370	13x25	240	16x30	250	16x30	250	22x40	350	350
220	221	10x16	470	13x25	620	16x35	380	19x35	390	19x40	400	25x50	750	750
330	331	10x20	710	13x25	760	22x30	500	22x40	800	22x50	900			
470	471	13x20	900	16x25	1000	22x40	850	22x50	1100	25x50	1200			
1000	102	16x25	1300	19x40	1380	25x50	1300							
2200	222	19x35	2300	22x50	2400									
3300	332	22x40	2700	25x50	2900									
4700	472	22x50	3400											
6800	682	25x50	3900											
10000	103													

Rated ripple current (mA, +105°C, 100Hz)

CC41,CT41 CHIP MULTILAYER CERAMIC CAPACITOR

- Miniature Size
- Wide Capacitance, Temperature Compensation and Voltage Range
- Highly Reliable Performance
- Industry Standard Size
- Tape & Reel for Surface Mount Assembly and Bulk packed



PART NUMBER CODE (ORDER FORM)

CLASS I Dielectric	CLASS II Dielectric	Temperature Coefficient CG(COG or NPO) 2X1(X7R) 2F4(Y5V)	Fill in standard Ca- pacitance Value ac- cording to actual one.	Package Code T=paper Tape S=Bulk Package
CC41	CT41			
CC41	0805	CG	100V	51P
				J
				T

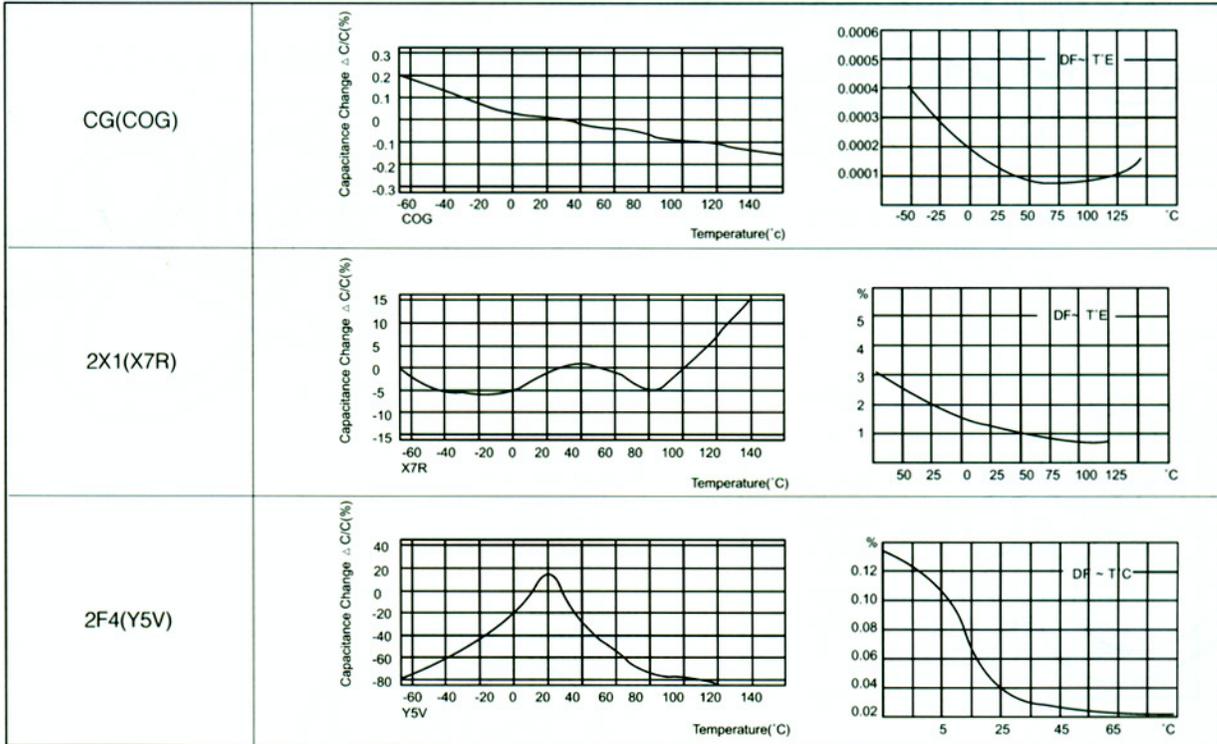
Size Code 0402 0603 0805 1005 1206 1210 1812 2225 3035	Voltage (VDCW) 16V 25V 50V 63V 100V	Capacitance Tolerances Code B=±0.10PE C=±0.25PE D=±0.50PE F=±1% G=±2% J=±5% K=±10% M=±20% S=+50-20% Z=+80%-20%
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TECHNICAL PARAMETERS

MODEL	TEMPERATURE COEFFICIENT	DISSIPATION FACTOR	INSULATION RESISTANCE	DIELECTRIC WITHSTANDING VOLTAGE
CC41-CG(COG)	-55~+125°C	$C_R > 50PF$	$R_1 > 10G\Omega$	2.5xVDCW
CC4-CG(COG)	±30PPM/°C	$< 15X10^{-4}$		
CT41-2X1(7R)	±15%	< 0.035	$R_R > 25nF$	2.5xVDCW
CT4-2X1(7R)	-55~+125°C		$R_1 C_R > 25nF$	
CT41-2F4(Y5V)	± $\frac{30}{80}\%$	< 0.035	$R_R < 25nF$	2.5xVDCW
CT4-2F4(Y5V)	-25~+85°C		$R_1 > 4G\Omega$	

• Please Consult Us For Special Technical Parameters.

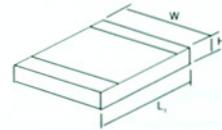
MATERIAL CHARACTERISTICS



CERAMIC CAPACITORS

CAPACITANCE Vs CHIP SIZE

CHIP MULTILAYER CERAMIC CAPACITOR



Size code	Class I Dielectrics		Class II Dielectrics						Dimension (mm)		
	CC41-CG(COG)		CT41-2x1(x7R)			CT41-2F4(Y5V)					
	50V	100V	16V	25V	50V	16V	25V	50V	L	W	H
0402	0.5P-120P		6800P-10000P	1000P-8200P	220P-2700P	33000P-56000P	10000P-39000P	2200P-10000P	1.0±0.05	0.5±0.05	0.5±0.05
0603	0.5P-680P	0.5P-390P	33000P-100000P	10000P-39000P	220P-15000P	0.1P-0.33P	0.047μ-0.12μ	0.01μ-0.056μ	1.6±0.1	0.8±0.1	0.8±0.1
0805	0.5P-560P	0.5P-470P	0.1μ-0.18μ	0.047μ-0.068μ	330P-39000P	0.33P-0.68P	0.1μ-0.27μ	10000P-82000P	2.0±0.1	1.25±0.1	0.65±0.1
	620P-1000P	510P-1000P	0.22μ-0.33μ	0.082μ-0.12μ	4700P-56000P	0.82P-1P	0.33μ-0.47μ	0.1μ-0.15μ			0.85±0.1
1206	1100P-1800P	1100P-1200P	0.39μ-0.56μ	0.15μ-0.22μ	0.068P-0.1P	1.2P-2.2P	0.56μ-0.82μ	0.18μ-0.33μ	3.2±0.15	1.6±0.15	1.25±0.1
	0.5P-1500P	0.5P-1500P	0.33μ-0.56μ	0.1μ-0.22μ	330P-82000P	1P-1.5P	0.47μ-0.68μ	0.01μ-0.33μ			0.65±0.1
	1600P-2200P	1600P-1800P	0.68μ-0.82μ	0.27μ-0.38μ	0.1P-0.15P	1.8P-2.2P	0.82μ-1.0μ	0.39μ-0.47μ			0.85±0.1
1210	2400P-2700P	2000P-2200P	1.0μ-1.2μ	0.47μ	0.18P-0.22P	2.7P-3.3P	1.2μ-1.5μ	0.56μ-0.68μ	3.2±0.3	2.5±0.2	1.15±0.1
	3000P-3300P	2400P-2700P	1.5μ	0.56μ		3.9P-4.7P	1.8μ-2.2μ	0.82μ			1.25±0.1
	4700P		1.0μ-1.8μ	0.33μ-0.82μ	0.1P-0.27P	3.3P-5.6P	1.2μ-2.7μ	0.82μ			1.0±0.2
	5600P		2.2μ	1.0μ	0.33P-0.39P	6.8P-8.2P	3.3μ-3.9μ	0.1μ-1.2μ			1.25±0.2
	7500P		2.7μ	1.2μ	0.47μ	10μ			1.4±0.2		
Tolerances	B.C.D(C<10PF) F.J.K.M(C>10PF)		J.K.M			S.Z					

• Special requirements of size, tolerances, working voltage are available.

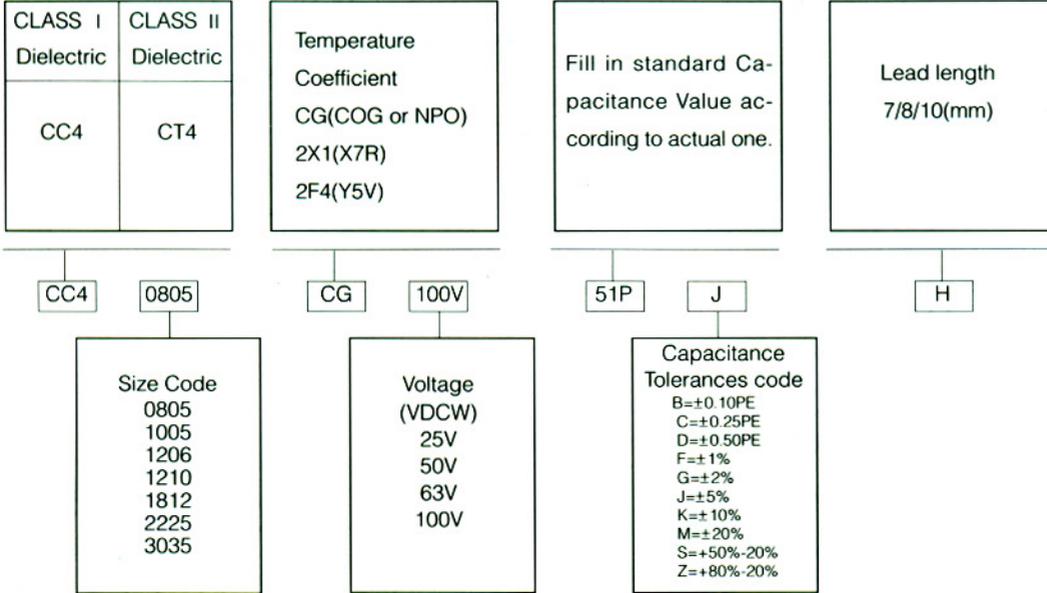
CT41-2F4(Y5V) Silver termination clip for making leaded MLCC

Size code	0805	1005	1206	1210	1812	2225	3035
C Rang	1000P-22000P	1000P-22000P	0.1μ-0.33μ	0.33μ-0.68μ	0.47μ-1.5μ	2.2μ-3.3μ	3.3μ-6.3μ

E-mail:ceiec@public.cz.js.cn
Http://www.ceiec.com
Tel:+86-519-6600389
Fax:+86-519-6607378, 6606496

CC4,CT4 LEADED MULTILAYER CERAMIC CAPACITORS

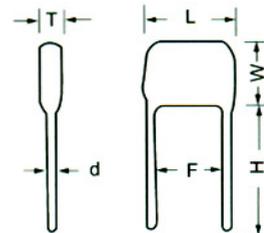
PART NUMBER CODE (ORDER FORM)



CAPACITANCE Vs CHIP SIZE

Size code	Class I Dielectrics		Class II Dielectrics				Size(max) (mm)				
	CC41-CG(COG)		CT41-2x1(x7R)		CT41-2F4(Y5V)		L	W	T	d	
	50V, 63V	100V	25V	50V, 63V	100V	25V					50V, 63V
0805	10P-1000P	0.5P-560P	0.00022μ-0.033μ	0.001μ-0.022μ	0.001μ-0.012μ	0.01μ-0.10μ	0.01μ-0.10μ	3.80	3.20	3.00	0.50
1206	10P-2700P	1.0P-1500P	0.00022μ-0.1μ	0.0033μ-0.047μ	0.0033μ-0.027μ	0.01μ-0.27μ	0.01μ-0.22μ	5.10	4.50	3.50	0.50
1210	220P-4700P	100P-2700P	0.0056μ-0.18μ	0.0056μ-0.012μ	0.0056μ-0.068μ	0.047μ-0.39μ	0.047μ-0.33μ	5.10	4.50	3.50	0.50
1812	330P-6800P	220P-6800P	0.01μ-0.39μ	0.01μ-0.22μ	0.01μ-0.12μ	0.1μ-1.0μ	0.1μ-0.56μ	7.60	5.50	4.00	0.50
2225			0.01μ-0.82μ	0.01μ-0.47μ	0.01μ-0.27μ	0.1μ-2.0μ	0.1μ-1.0μ	10.20	8.50	4.50	0.80
3035						0.47μ-6.0μ		11	11	4.5	0.80
4043						4.7-10μ		13.20	12.9	4.5	0.80
Tolerances	B,C,D(C<10PF) F,J,K,M(C>10PF)		J,K,M			S,Z					

- Special requirements are available
- Size code 1206.0805 capacitors F=5mm Others' F=L
- Only bulk packed
- H=7/8/10MM

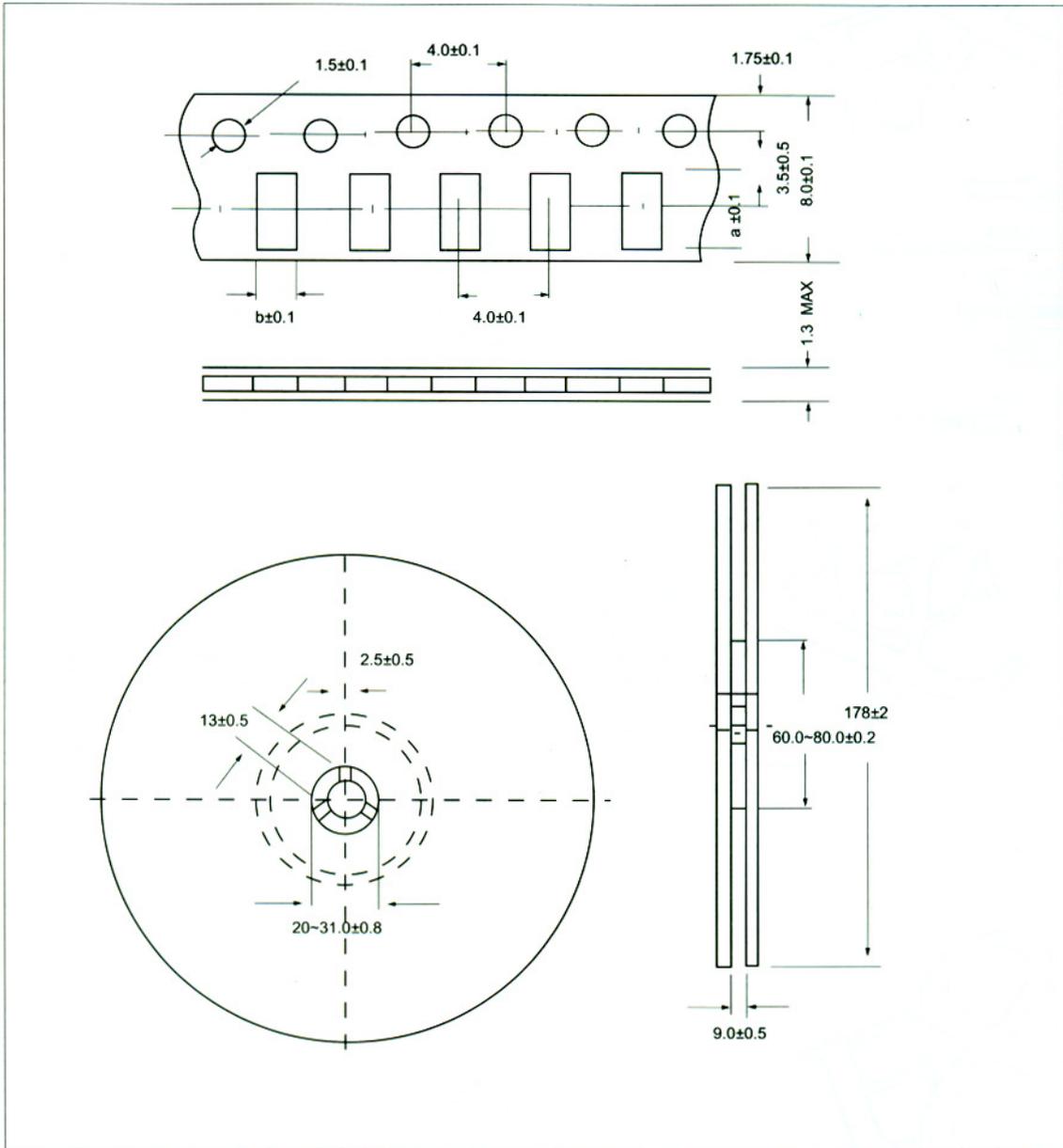


CHIP CAPACITOR PACKING TYPE

- 500/1000 PCS per small bag, 10/20 small bags per big bag according to chip sizes.
- PAPER TAPE

Size Code	a(mm)	b(mm)
0603	1.9	1.1
0805	2.4	1.65
1206	3.6	2.0

4000 PCS per reel, 5 reels per box.



E-mail:ceiecz@public.cz.js.cn

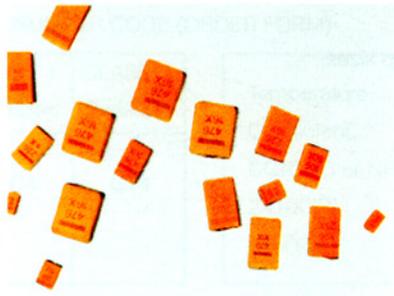
Http://www.ceiecz.com

Tel:+86-519-6600389

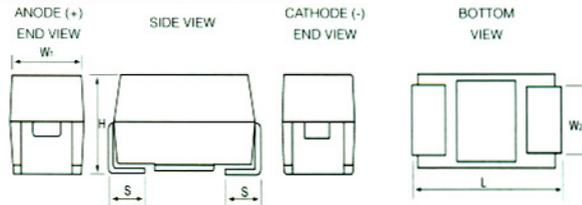
Fax:+86-519-6607378, 6606496

FC-C-0281 (CA45)

TYPE NXRC CHIP SOLID TANTALUM CAPACITORS



- CHARACTERISTICS
 - Temperature Range: -55°C ~ +125°C
 - DC Leakage Current: $I_o \leq 0.01C_R V_R (\mu A)$ or $0.5(\mu A)$ (Whichever is greater)
 - Tolerance: $\pm 20\%$; $\pm 10\%$ (Special Order)
- CAPACITOR OUTLINE DRAWINGS



● Table 1: Dimensions in Millimeters (Inch)

Case Size	L $\pm 0.2(0.008)$	W1 $\pm 0.2(0.008)$	H $\pm 0.2(0.008)$	S $\pm 0.3(0.012)$	W2 $\pm 0.1(0.004)$
A	3.2(0.126)	1.6(0.063)	1.6(0.063)	0.8(0.031)	1.2(0.047)
B	3.5(0.137)	2.8(0.110)	1.9(0.075)	0.8(0.031)	2.2(0.087)
C	6.0(0.236)	3.2(0.126)	2.5(0.098)	1.3(0.051)	2.2(0.087)
D	7.3(0.287)	4.3(0.169)	2.8(0.110)	1.3(0.051)	2.4(0.094)

● Rated Voltage Code

Rated Voltage (V)	4	6.3	10	16	20	25	35	50
Code	G	J	A	C	D	E	V	H

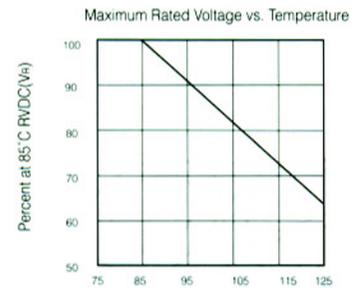
● Capacitance Code

Capacitance(μF)	1	1.5	2.2	3.3	4.7	6.8
Code	A	E	J	N	S	W

● Multiplier Code

Multiplier	10 ⁴	10 ⁵	10 ⁶	10 ⁷
Code	4	5	6	7

DERATING CURVE



● Table 2 : Rated Voltage, Voltage Derating, Surge Voltage and Capacitance of Capacitors

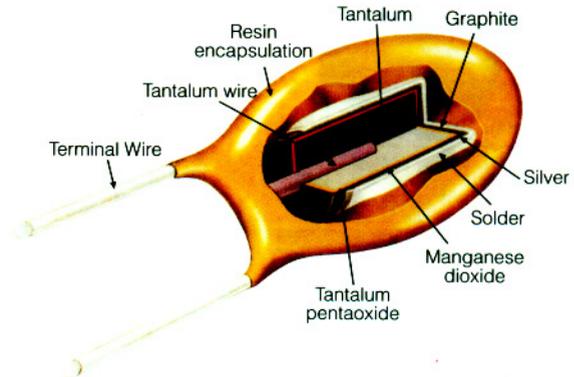
Rate Voltage (V)	4	6.3	10	16	20	25	35	35
Voltage derating(V)	2.5	4	6.3	10	13	16	23	23
Surge voltage(V)	5	7	11.5	18	23	29	40	40
Capacitance(μF)	Case Size							
0.1							A	A
0.15							A	B
0.22							A	B
0.33							A	B
0.47						A	B	C
0.68					A	A	B	C
1.0				A	A	B	B	C
1.5			A	A	B	B	C	D
2.2		A	A	B	B	B	C	D
3.3	A	A	B	B	B	C	C	D
4.7	A	B	B	B	C	C	D	D
6.8	B	B	B	C	C	D	D	
10	B	B	C	C	D	D	D	
15	B	C	C	C	D	D		
22	C	C	D	D	D			
33	C	D	D	D				
47	D	D	D					
68	D	D						
100	D	D						

Type NXRDH Epoxy Coated Solid Electrolyte Tantalum Capacitors

Type NXRDH capacitors are anode sintered, epoxy coated solid electrolyte tantalum capacitors, protected by moisture-resistant, flame-retardant epoxy encapsulation and laser marked with capacitance, DC voltage and polarity. The capacitors comply with and surpass specifications IEC 384-15-3, IECQQC300201/US0003 and GB7215-87, suitable for a broad range of consumers, commercial and industrial equipments such as television sets, tape recorders, computers, program-controlled telephones and switching systems, instruments and meters.

● Performance Characteristics:

- High reliability and long life (1000-2000 hours)
- Miniature in size
- Operating temperature: -55 ~ +125°C (with voltage derating at greater than +85°C)
- Rated DC voltage: 3V 4V 6.3V 10V 16V 20V 25V 35V 50V
- Low DC leakage current: $I_o < 0.02C_R V_R$ or $1\mu A$, whichever is greater (at 20°C)
- Low dissipation factor
- Broad capacitance range: 0.047μF~680μF



● Characteristics Parameters (all data measured at 20°C)

- Capacitance Range(μF): 0.047, 0.068, 0.1, 0.15, 0.22, 0.33, 0.47, 0.68, 1, 1.5, 2.2, 3.3, 4.7, 6.8, 10, 15, 22, 33, 47, 68, 100, 150, 220, 330, 470, 680
- Capacitance Tolerance: ±20% ±10% ±5% (Special order)

Rated voltage(V_R) < +85°C	3	4	6.3	10	16	20	25	35	50
Derated voltage(V_c) < 125°C	2	2.5	4	6.3	10	13	16	20	32
Surge voltage(V_s) < +85°C < +125°C	4	5.2	8	13	20	26	33	46	65
	2.6	3.4	5	9	12	16	21	26	40

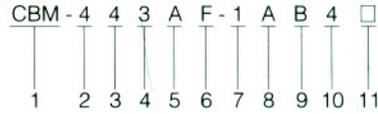
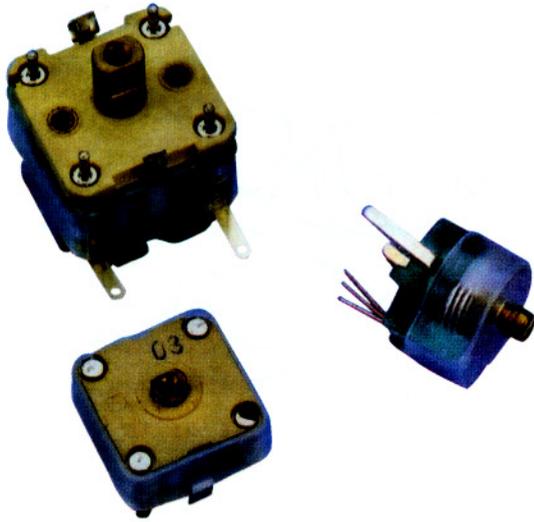
- Temperature range: -55°C~+125°C
- Climatic category 55/125/10
- Life test: 2000 hours

● TEMPERATURE PERFORMANCE

Cap.(μF)	Cap.Tol(%)			Max D.F.(%)				Max DCL(μF)		
	-55°C	+85°C	+125°C	-55°C	+20°C	+85°C	+125°C	+20°C	+85°C	+125°C
< 1.0	±10	±15	±25	4	2	4	6	$I_o < 0.02C_R V_R$ OR $1\mu A$ (whichever is greater)	10 I_o	12.5 I_o
1.5~6.8				6	4	6	8			
10~68				8	6	8	10			
100~680				10	8	10	12			

● DIMENSIONS IN MILLIMETERS

CASE SIZE	D(max)	H(max)	h(± 0.5mm)	d
A	4.0	6	2.5	0.5
B	4.8	7.2	2.5	0.5
C	5.5	8	2.5	0.5
D	6.0	9.4	2.5	0.5
E	7.2	11.5	5.0	0.5
F	8.2	12.5	5.0	0.5



1. Main Code
2. No. of Section
3. No. of Trimmer
4. Dimensions Code (See Table 1)
5. Max. Variable Cap. Code for AM Section (See Table 2)
6. Max. Variable Cap. Code for FM Section (See Table 2)
7. Mounting Type Code (See Table 3)
8. Cap. Variable Coeff. Code for AM Section (See Table 4)
9. Cap. Variable Coeff. Code for FM Section (See Table 4)
10. Shaft Length Code (See Table 5)
11. Structure Derivation Code

Table 1

Dimensions Code	Dimensions(mm)
1	30x30xH
2	25x25xH
3	20x20xH
4	16x16xH
5	12x12xH

Table 2

Code		Max Variable Cap (pF)
For AM Section	A	335
	B	266
	J	82/160
	H	82/140
	P	59.2/141.6
	D	126
For FM Section	E	40
	F	20

Table 3

Mounting Type	Code	
Screw Mounting	1	
Front Mounting (Type I,II)	I	2
	II	3
Rear Mounting	4	

Table 5

	L	L1	L2	Code	Remarks
	4±0.5	2 ^{+0.48} ₀	3min	4	For 20x20mm Products
	6±0.5	3 ^{+0.48} ₀	4min	3	
	8±0.5	4 ^{+0.48} ₀	4min	2	
	10±0.5	6 ^{+0.48} ₀	4min	1	
	(3)	3 ^{+0.48} ₀	3min	4	
For 16x16mm Products	1.5±0.2	1.0 ^{+0.3} ₀	1.5 ^{+0.3} ₀	5	For 20x20mm Dip Soldering Type Products only
	4.0±0.2	2.0 ^{+0.4} ₀	3.0 ^{+0.3} ₀	4	
	2.0±0.2	1.5 ^{+0.4} ₀	2.3 ^{+0.3} ₀	6	
	Others			6	

Table 4

Code	Cap. Variable Coeff(%)	Rotation Coeff												
		100	90	890	75	70	60	50	40	30	25	20	10	(3)
For AM Section	A	100.00	84.40	67.90	60.00	52.30	38.00	26.20	17.00	10.20	7.57	5.31	1.74	0
	C	100.00	90.00	78.00	71.80	65.20	51.70	38.80	27.20	17.40	13.30	9.60	3.30	0
	D	100.00	86.19	71.19	63.35	56.43	42.06	28.89	17.62	10.24	7.54	5.40	2.06	0
For FM Section	B	100.00	86.18	73.37	67.32	61.48	50.42	40.12	30.50	21.52	17.25	13.11	5.23	0
	F	100.00	86.00	71.00	63.50	56.50	42.00	28.90	17.50	10.50	7.50	5.50	2.00	0

Note: Rotation range is defined 100% for 180°, and the tolerance shall be 97⁺²₋₁ %

Products Specifications

Type No.	Model	Shaft Length L(mm)	Dimensions (mm)	Mounting Type Code	No. of Sections	Max. Var. Cap(pF)	Min. Cap(pF)	Tolerance	Cap. Var. Coeff. Code	Q		Contact Resistance (m)	Voltage Proof (V.DC)	Torque (gf.cm)	Trimmer cap. (pF)
										AM 1MHz50pF	FM 100MHz10pF				
FC-C-0283	CBM-223P	4	20.6x20.6x12	1	AM2	(0):59.2 (A):141.6	(0):4.5±1.5 (A):5±1.5	±(2%+2pF)	—	> 200	—	< 20	100	50-400	> 8
FC-C-0284	CBM-223F	4	20.6x20.6x11	1	FM2	20	4.5 ± 1.5	±(1%+1pF)	F	—	> 200	< 20	100	50-400	> 8
FC-C-0285	CBM-243B-1D4	4	20.7x20.7x16.8	1	AM2	266	5 ± 2	±(1.5%+1.5pF)	D	> 500	—	< 10	100	50-400	> 8
FC-C-0286	CBM-443DF-1DF4	4	20.7x20.7x12.5	1	AM2	126	5 ± 1.5	(0):±(2%+2pF) (A):±(1.5%+1.5pF)	D	> 500	—	< 20	100	50-400	> 8
FC-C-0287	CBM-443DF-2DF4	4	20.7x20.7x12.5	2	FM2	20	4 ± 1.5	±(1%+1pF)	F	—	> 150	< 20	100	50-400	> 8
FC-C-0288	CBM-443HF-1CAB4	4	20.6x21.4x12.5	1	AM2	(0):82 (A):140	5 ± 1.5	±(1%+1pF)	(():C (A):A	> 500	—	< 10	100	50-400	> 8
FC-C-0289	CBM-443HF-2CAB4	4	20.6x21.4x12.5	2	FM2	20	4 ± 1.5	±1pF	B	—	> 150	< 10	100	50-400	> 8
FC-C-0290	CBM-443BF-1AB4	4	20.7x20.7x16.8	1	AM2	266	5 ± 1.5	±(1.5%+1.5pF)	A	> 500	—	< 10	100	50-400	> 8
FC-C-0291	CBM-443BF-2AB4	4	20.7x20.7x16.8	2	FM2	20	4.5 ± 1.5	±1pF	B	—	> 200	< 10	100	50-400	> 8
FC-C-0292	CBM-443JF-1CAB4	4	20.7x20.7x16.8	1	AM2	(0):82 (A):160	5 ± 1.5	±(1%+1pF)	(():C (A):A	> 500	—	< 10	100	50-400	> 8
FC-C-0293	CBM-443JF-2CAB4	4	20.7x20.7x16.8	2	FM2	20	4 ± 1.5	±0.7pF	B	—	> 150	< 10	100	50-400	> 8
FC-C-0294	CBM-443DE-1DF4	4	20.7x20.7x12.5	1	AM2	126	5 ± 1.5	±(1.5%+1.5pF)	D	> 500	—	< 10	100	50-400	> 8
FC-C-0295	CBM-443DE-2DF4	4	20.7x20.7x12.5	2	FM2	40	4 ± 1.5	±(1%+1pF)	F	—	> 150	< 10	100	50-400	> 8
FC-C-0296	CBM-443BE-1AB4a	4	20.6x21.4x16.8	1	AM2	266	5 ± 1.5	±(1.5%+1.5pF)	A	> 500	—	< 10	100	50-400	> 8
FC-C-0297	CBM-443BE-2AB4a	4	20.6x21.4x16.8	2	FM2	40	4.5 ± 1.5	±(1%+1pF)	B	—	< 200	< 10	100	50-400	> 8
FC-C-0298	CBM-444DF-2DF5	1.5	16.6x16.6x7.6	2	AM2	126	5 ± 1.5	±(1.5%+1.5pF)	D	> 500	—	< 10	100	50-300	> 5.5
FC-C-0299	CBM-444DF-4DF5	1.5	16.6x16.6x7.6	4	FM2	20	4 ± 1.5	±(1%+1pF)	F	—	> 150	< 10	100	50-300	> 5.5
FC-C-0300	CBM-444HF-2CAB5	1.5	16.6x16.6x7.3	2	AM2	(0):82 (A):140	5.5 ± 1	±(1.5%+1.5pF)	(():C (A):A	> 500	—	< 10	100	50-350	> 5
FC-C-0301	CBM-444HF-4CAB5	1.5	16.6x16.6x7.3	4	FM2	20	4.5 ± 1	±(1%+1pF)	B	—	> 150	< 10	100	50-350	> 5
FC-C-0302	CBM-444JF-2CAB5	1.5	16.6x16.6x7.6	2	AM2	(0):82 (A):160	5.5 ± 1	±(1.5%+1.5pF)	(():C (A):A	> 500	—	< 10	100	50-350	> 5
FC-C-0303	CBM-444JF-4CAB5	1.5	16.6x16.6x7.6	4	FM2	20	4.5 ± 1	±1pF	B	—	> 150	< 10	100	50-350	> 5

Capacitance curve

FC-C-0283 (CBM-223P)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)	
Capacitance (pF)	AM	OSC.	59.2	55.2	50.9	48.5	46.2	41.0	35.0	28.4	21.0	16.9	12.9	4.8	0
	AM	ANT.	141.6	126.3	111.2	103.7	96.1	80.4	64.3	48.5	33.2	25.7	18.5	6.2	0

FC-C-0284 (CBM-223F)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)
Capacitance (pF)	FM-2	20	17.2	14.2	12.7	11.3	8.4	5.8	3.5	2.1	1.5	1.1	0.4	0

FC-C-0285 (CBM-243B-1D Series)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)
Capacitance (pF)	AM	266.0	229.3	189.4	169.3	150.1	111.9	76.8	46.9	27.2	20.1	14.4	5.5	0

FC-C-0286/FC-C-0287 (CBM-443DF Series)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)
Capacitance (pF)	AM	126.0	108.6	89.7	80.2	71.1	53.0	36.4	22.2	12.9	9.5	6.8	2.6	0
	FM	20.0	17.2	14.2	12.7	11.3	8.4	5.8	3.5	2.1	1.5	1.1	0.4	0

FC-C-0288/FC-C-0289 (CBM-443HF Series)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)	
Capacitance (pF)	AM	OSC.	82.0	73.8	64.0	58.9	53.5	42.4	31.8	22.3	14.3	10.9	7.9	2.7	0
		ANT.	140.0	118.2	95.1	84.0	73.2	53.2	36.7	23.8	14.3	10.6	7.4	2.4	0
	FM	20.0	17.24	14.67	13.46	12.30	10.08	8.02	6.10	4.30	3.45	2.62	1.05	0	

FC-C-0290/FC-C-0291 (CBM-443BF-1AB / 2AB Series)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)
Capacitance (pF)	AM	266.0	224.5	180.6	159.6	139.1	101.1	69.7	45.2	27.1	20.1	14.1	4.6	0
	FM	20.0	17.24	14.67	13.46	12.30	10.08	8.02	6.10	4.30	3.45	2.62	1.05	0

FC-C-0292/FC-C-0293 (CBM-443JF Series)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)	
Capacitance (pF)	AM	OSC.	82.0	73.8	64.0	58.9	53.5	42.4	31.8	22.3	14.3	10.9	7.9	2.7	0
		ANT.	160.0	135.0	108.6	96.0	83.7	60.8	41.9	27.2	16.3	12.1	8.5	2.8	0
	FM	20.0	17.24	14.67	13.46	12.30	10.08	8.02	6.10	4.30	3.45	2.62	1.05	0	

FC-C-0294/FC-C-0295 (CBM-443DE-1DF/2DF Series)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)
Capacitance (pF)	AM	126.0	108.6	89.7	80.2	71.1	53.0	36.4	22.2	12.9	9.5	6.8	2.6	0
	FM	40.00	34.48	28.48	25.46	22.57	16.82	11.56	7.05	4.11	3.02	2.16	0.82	0

FC-C-0296/FC-C-0297 (CBM-443BE Series)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)
Capacitance (pF)	AM	266.0	224.5	180.6	159.6	139.1	101.1	69.7	45.2	27.1	20.1	14.1	4.6	0
	FM	40.00	34.47	29.35	26.93	24.59	20.17	16.05	12.20	8.61	6.90	5.24	2.1	0

FC-C-0298/FC-C-0299 (CBM-444DF Series)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)
Capacitance (pF)	AM	126.0	108.6	89.7	80.2	71.1	53.0	36.4	22.2	12.9	9.5	6.8	2.6	0
	FM	20.0	17.2	14.2	12.7	11.3	8.4	5.8	3.5	2.1	1.5	1.1	0.4	0

FC-C-0300/FC-C-0301 (CBM-444HF Series)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)	
Capacitance (pF)	AM	OSC.	82.0	73.8	64.0	58.9	53.5	42.4	31.8	22.3	14.3	10.9	7.9	2.7	0
		ANT.	140.0	118.2	95.1	84.0	73.2	53.2	36.7	23.8	14.3	10.6	7.4	2.4	0
	FM	20.0	17.24	14.67	13.46	12.30	10.08	8.02	6.10	4.30	3.45	2.26	1.05	0	

FC-C-0302/FC-C-0303 (CBM-444JF Series)

Rotation Coeff.(%)		100	90	80	75	70	60	50	40	30	25	20	10	(3)	
Capacitance (pF)	AM	OSC.	82.0	73.8	64.0	58.9	53.5	42.4	31.8	22.3	14.3	10.9	7.9	2.7	0
		ANT.	160.0	135.0	108.6	96.0	83.7	60.8	41.9	27.2	16.3	12.1	8.5	2.8	0
	FM	20.0	17.24	14.67	13.46	12.30	10.08	8.02	6.10	4.30	3.45	2.62	1.05	0	

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FC-C-0283
(CBM-223P)

Unit:mm
O:AM(OSC)
A:AM(ANT)
AM Electrically connects with trimmers

FC-C-0284
(CBM-223F)

Unit:mm
O:AM(OSC)
A:AM(ANT)
AM Electrically connects with trimmers

FC-C-0285
(CBM-243B-1D4)

Spec.Code	L	L1	L2
1D4a	4.0	2.0	3

Unit:mm
C1:AM(OSC)
C2:AM(ANT)

FC-C-0286
(CBM-443DF)

Spec.Code	L	L1	L2
1D4k	4.0	2.0	3

Unit:mm
C1:AM(ANT)
C2:AM(OSC)
C3:FM(OSC)
C4:FM(ANT)
AM-FM Electrically connects with trimmers

E-mail:ceiec@public.cz.js.cn

Http://www.ceiec.com

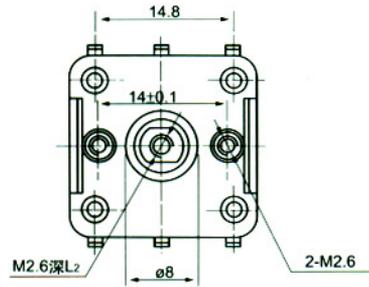
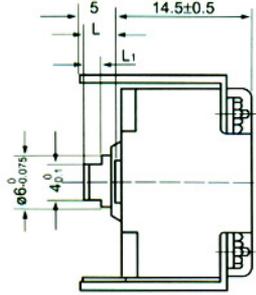
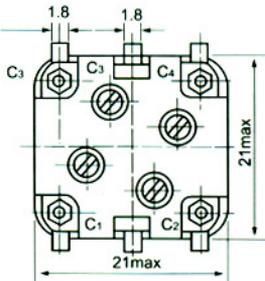
Tel: +86-519-6600389

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FC-C-0294
(CBM-443DE-1DF4)

Spec.Code	L	L1	L2
1DF4	4.0	2.0	3

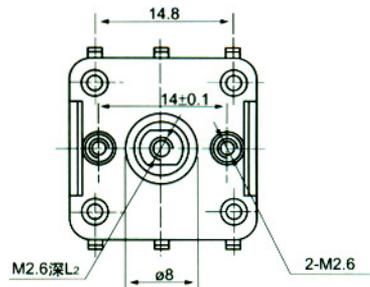
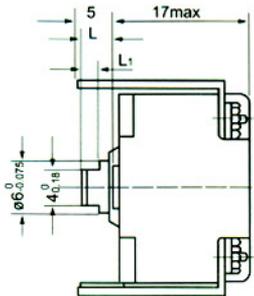
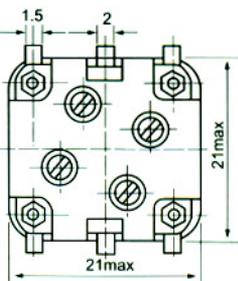
Unit:mm
C1 AM(OSC)
C2 AM(ANT)
C3 FM(OSC)
C4 FM(ANT)
AM-FM Electrically connects with trimmers



FC-C-0296
(CBM-443BE-1AB4a)

Spec.Code	L	L1	L2
1AB4	4.0	2.0	3

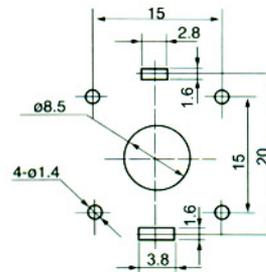
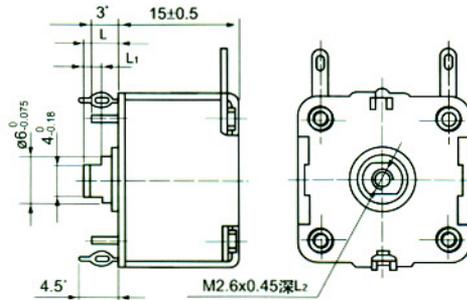
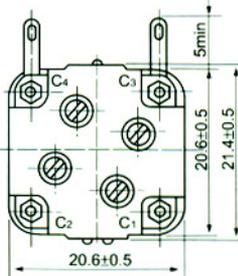
Unit:mm
C1 AM(OSC)
C2 AM(ANT)
C3 FM(OSC)
C4 FM(ANT)
AM-FM Electrically connects with trimmers



FC-C-0291
(CBM-443BF-2AB4a)

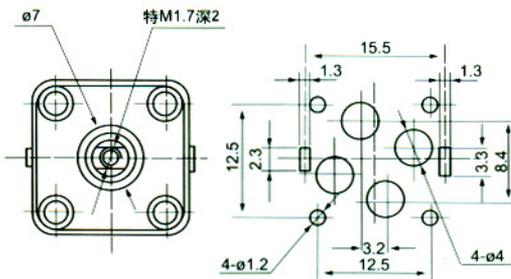
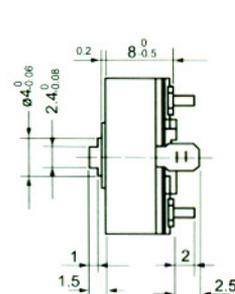
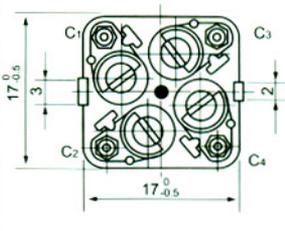
Spec.Code	L	L1	L2
2AB4	4.0	2.0	3

Unit:mm
C1 FM(OSC)
C2 FM(ANT)
C3 AM(OSC)
C4 AM(ANT)
AM-FM Electrically connects with trimmers



FC-C-0298
(CBM-444DF)

Unit:mm
C1 FM(OSC)
C2 FM(ANT)
C3 AM(OSC)
C4 AM(ANT)
AM-FM Electrically connects with trimmers



FC-C-0300
(CBM-444HF-2CAB5)

Unit:mm
C1:FM(OSC)
C2:FM(ANT)
C3:AM(OSC)
C4:AM(ANT)
AM-FM Electrically connects with trimmers

FC-C-0301
(CBM-444HF-4CAB5)

Unit:mm
C1:FM(OSC)
C2:FM(ANT)
C3:AM(OSC)
C4:AM(ANT)
AM-FM Electrically connects with trimmers

FC-C-0302
(CBM-444JF-2ACB5)

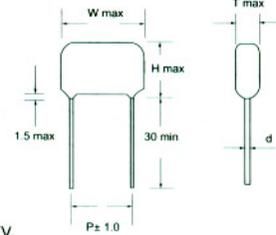
Unit:mm
C1:FM(OSC)
C2:FM(ANT)
C3:AM(OSC)
C4:AM(ANT)
AM-FM Electrically connects with trimmers

FC-C-0303
(CBM-444JF-4CAB5)

Spec.Code	L	L1	L2
4CAB5d	2.0	1.6	2.5

Unit:mm
C1:FM(OSC)
C2:FM(ANT)
C3:AM(OSC)
C4:AM(ANT)
AM-FM Electrically connects with trimmers

METALLIZED POLYPROPYLENE FILM CAPACITOR



- This is constructed from metallized polypropylene film dielectric, non-inductive construction.
- Flame retardant epoxy resin coating, radial CP wire.
- Very low dissipation factor at high-frequency, very small inherent temperature rise.
- Good stability of capacitance, excellent insulation resistance property
- Excellent self-healing property.
- Suitable for DC, pulse, high-frequency, large-current loading circuits, widely used in display, stereo HI-FI, video-audio, telecommunication, data transferring and processing equipment and various electronic equipment.

Specifications

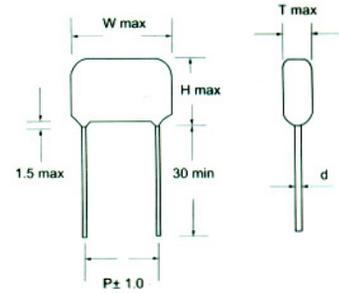
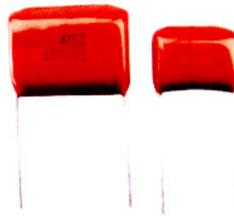
Reference Standard	SJ/T 10353 IEC384-46
Climatic Category	40/085/21
Rated Voltage	100V/160V、250V、400V、630V
Capacitance Range	0.001--6.8μF
Capacitance Tolerance	J(±5%),K(±10%)
Voltage Proof	1.6U _R (5s)
Insulation Resistance	C < 0.33μF, > 30000MΩ ; C>0.33μF, > 10000MΩ · μF (20°C,1min)
Dissipation Factor	< 0.1% (20°C,1KHz)

Dimensions

CAPACITOR PF	Unit:mm		
	100V--400V	630V	1000V
	W * H * T * P	W * H * T * P	W * H * T * P
1000	11 * 10 * 5 * 7.5	11 * 10 * 5 * 7.5	14 * 8.5 * 5 * 10
1200	11 * 10 * 5 * 7.5	11 * 10 * 5 * 7.5	14 * 9.5 * 5 * 10
1500	11 * 10 * 5 * 7.5	11 * 10 * 5 * 7.5	14 * 9.5 * 6 * 10
1800	11 * 10 * 5 * 7.5	11 * 10 * 5 * 7.5	14 * 10 * 6 * 10
2200	11 * 10 * 5 * 7.5	11 * 10 * 5 * 7.5	14 * 10.5 * 6 * 10
2700	11 * 10 * 5 * 7.5	11 * 10 * 5 * 7.5	14 * 12 * 6 * 10
3300	11 * 11 * 6 * 7.5	11 * 11 * 6 * 7.5	14 * 12 * 6 * 10
3900	11 * 11 * 6 * 7.5	11 * 11 * 6 * 7.5	14 * 12 * 6 * 10
4700	11 * 11 * 6 * 7.5	11 * 11 * 6 * 7.5	14 * 12 * 6 * 10
5600	11 * 11 * 6 * 7.5	11 * 11 * 6 * 7.5	14 * 12 * 6.5 * 10
6800	11 * 11 * 6 * 7.5	11 * 11 * 6 * 7.5	14 * 13 * 7 * 10
8200	11 * 11 * 6 * 7.5	11 * 11 * 6 * 7.5	14 * 13.5 * 7.5 * 10

CAPACITOR μF	100V/160V	250V	400V	630V
	W * H * T * P	W * H * T * P	W * H * T * P	W * H * T * P
0.01	12 * 10 * 7 * 7.5	12 * 10 * 7 * 7.5	12 * 10 * 7 * 7.5	13 * 11 * 6 * 10
0.015	12 * 11 * 7 * 7.5	12 * 11 * 7 * 7.5	12 * 11 * 7 * 7.5	13 * 11 * 6.5 * 10
0.022	12 * 12 * 7 * 7.5	12 * 12 * 7 * 7.5	12 * 12 * 7 * 7.5	14 * 10 * 6 * 10
0.033	14 * 10 * 6 * 10	14 * 10 * 6 * 10	14 * 10 * 6 * 10	14 * 12 * 6.5 * 10
0.047	14 * 11 * 6 * 10	14 * 11 * 6 * 10	14 * 11 * 6 * 10	14 * 13 * 7 * 10
0.068	14 * 12 * 6 * 10	14 * 12 * 6 * 10	14 * 12 * 6 * 10	18 * 12 * 7 * 15
0.1	14 * 12 * 7 * 10	14 * 12.5 * 7.5 * 10	14 * 13 * 8 * 10	18 * 13 * 8 * 15
0.15	18 * 12 * 7 * 15	18 * 12.5 * 7.5 * 15	18 * 13 * 8 * 15	18 * 15 * 9 * 15
0.22	18 * 13 * 8 * 15	18 * 13.5 * 8.5 * 15	18 * 14 * 9 * 15	24 * 15 * 9 * 20
0.33	18 * 14 * 9 * 15	18 * 14.5 * 9.5 * 15	18 * 15 * 10 * 15	24 * 18 * 10 * 20
0.47	18 * 15 * 10 * 15	18 * 15.5 * 10.5 * 15	23 * 16 * 10 * 15	27 * 19 * 12 * 22.5
0.68	18 * 17 * 11 * 15	18 * 17.5 * 11.5 * 15	23 * 18 * 11 * 20	27 * 22 * 14 * 22.5
1.0	26 * 17 * 10 * 22.5	26 * 17.5 * 10.5 * 22.5	31 * 18 * 12 * 27.5	33 * 22 * 15 * 27.5
1.50	26 * 21 * 13 * 22.5	30 * 19 * 13 * 25	31 * 21 * 13 * 27.5	36 * 25 * 16 * 30
2.20	30 * 23 * 14 * 25	31 * 23.5 * 14.5 * 25	36 * 23 * 15 * 30	42 * 27 * 18 * 37.5
3.30	30 * 25 * 18 * 25	31 * 25.5 * 18.5 * 25	36 * 26.5 * 19 * 30	42 * 31 * 22 * 37.5
4.70	30 * 28 * 20 * 25	31 * 28.5 * 20.5 * 25		
6.80	36 * 31 * 22 * 30	36 * 31.5 * 22.5 * 30		

METALLIZED POLYESTER FILM CAPACITOR



- This is constructed from metallized polyester film dielectric, non-inductive construction.
- Epoxy resin coating, radial CP wire.
- Excellent self-healing property, high insulation resistance and stability of capacitance.
- Suitable for DC, pulse circuits widely used in filtering, blocking, by-pass, coupling, noise suppression circuits for various electronic equipment.

Specifications

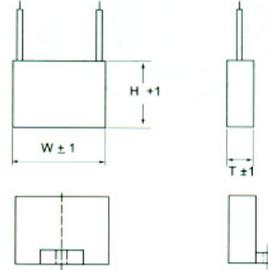
Reference Standard	GB7335-87 IEC384-2
Climatic Category	55/085/21
Rated Voltage	160V, 250V, 400V, 630V
Capacitance Range	0.01-10 μ F
Capacitance Tolerance	J(\pm 5%),K(\pm 10%)
Voltage Proof	1.6U _R (5s)
Insulation Resistance	C _R < 0.33 μ F, > 10000M Ω ; C _R >0.33 μ F, > 5000M Ω · μ F (20°C,1min)
Dissipation Factor	< 1.0% (20°C,1KHz)

Dimensions

Unit:mm

CAPACITOR μ F	160V	250V	400V	630V
	W * H * T * P	W * H * T * P	W * H * T * P	W * H * T * P
0.01			13 * 11 * 6 * 10	13 * 11 * 6 * 10
0.015			13 * 11 * 6.5 * 10	13 * 11 * 6.5 * 10
0.022			14 * 12 * 6.5 * 10	14 * 12 * 6.5 * 10
0.033	11 * 8.5 * 5 * 7.5	11 * 8.5 * 5 * 7.5	14 * 12.5 * 7 * 10	14 * 12.5 * 7 * 10
0.047	11 * 9 * 5 * 7.5	11 * 9 * 5 * 7.5	14 * 13 * 7.5 * 10	14 * 14 * 8 * 10
0.068	11 * 11 * 6 * 7.5	11 * 11 * 6 * 7.5	14 * 13.5 * 8 * 10	18 * 12.5 * 8 * 15
0.1	14 * 10.5 * 5.5 * 10	14 * 10.5 * 5.5 * 10	14 * 14 * 8 * 10	18 * 15 * 9 * 15
0.15	14 * 12 * 6 * 10	14 * 12 * 6 * 10	18 * 14 * 8 * 15	18 * 17 * 10.5 * 15
0.22	14 * 13 * 7.5 * 10	14 * 13 * 7.5 * 10	18 * 15 * 10 * 15	24 * 17 * 10 * 20
0.33	18 * 13 * 7.5 * 15	18 * 13 * 7.5 * 15	18 * 17 * 11 * 15	24 * 19.5 * 12 * 20
0.47	18 * 14 * 8 * 15	18 * 14 * 8 * 15	23 * 17 * 11 * 20	27 * 19 * 14 * 22.5
0.68	18 * 16 * 9.5 * 15	18 * 16 * 9.5 * 15	23 * 19.5 * 12 * 20	27 * 21 * 16 * 22.5
1.0	24 * 16 * 9 * 20	24 * 16 * 9 * 20	32 * 20 * 13 * 27.5	33 * 23 * 15 * 27.5
1.50	24 * 18 * 11 * 20	24 * 18 * 11 * 20	32 * 23 * 14 * 27.5	36 * 26 * 17 * 30
2.20	32 * 18 * 12 * 27.5	32 * 18 * 12 * 27.5	36 * 25 * 15 * 30	42 * 26 * 19 * 37.5
3.30	32 * 23 * 15 * 27.5	32 * 23 * 15 * 27.5	36 * 28 * 19 * 30	42 * 32 * 22 * 37.5
4.70	32 * 24 * 16 * 27.5	32 * 24 * 16 * 27.5	36 * 33 * 24 * 30	
6.80	42 * 26 * 17 * 37.5	42 * 26 * 17 * 37.5		
10.0	42 * 30 * 21 * 37.5	42 * 30 * 21 * 37.5		

METALLIZED POLYPROPYLENE FILM CAPACITOR FOR AC MOTOR



- This is constructed from metallized polypropylene film dielectric, non-inductive construction.
- Encapsulated in non-combustion ABS case, flame retardant epoxy resin sealed.
- High stability of capacitance and insulation resistance.
- Very low dissipation factor and small inherent temperature rise.
- Excellent self-healing property.
- Leads on request ,soldering terminal, plastic coated copper wire and CP wire are available.
- Suitable for starting and running for monophase motors with power supply AC 50/60Hz, for example air-conditioner, various fan and exhaust fan etc., also used in various AC power supply purpose.

Specifications

Reference Standard	GB/T 3667 - 93
Climatic Category	25/70/21
Rated Voltage	500V,50Hz/60Hz
Capacitance Range	1--6.0μF
Capacitance Tolerance	J(±5%),K(±10%)
Voltage Proof	2.0U _n (2s)
Insulation Resistance	> 3000MΩ · μF (20°C,1min)
Dissipation Factor	< 0.002 (20°C,1KHz)

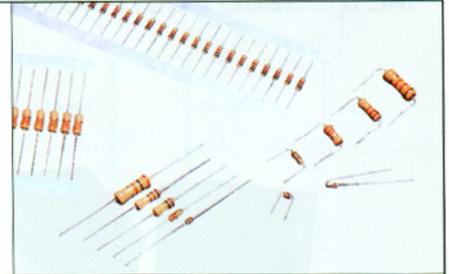
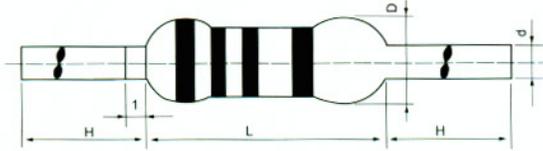
Dimensions

Unit:mm

CAPACITOR μF	Dimensions		
	W	H	T
1.0	32	21	12
1.2	32	21	13
1.5	32	21.5	15
2.0	32	26	16.5
2.5	38	27	17
3.0	38	28	18
3.5	38	30	20
4.0	46	28.5	18
5.0	46	31	20
6.0	46	33	22

CARBON FILM FIXED RESISTOR

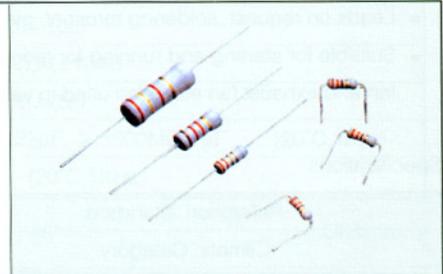
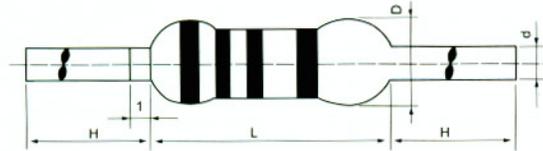
FIGURE AND DIMENSION



PART NUMBER	TYPE	Lmax	Dmax	H	d	RATING POWER (W)	ALLOW TOLERANCE	LIMIT VOLTAGE (V)	TEMPERATURE COEFFICIENT	TEMPERATURE LIMITS
FC-C-0304	RT13	3.5	1.7	28±2	0.45±0.05	1/6	± 5%	200	+ 350~-1000ppm/°C	-55 ~ 125°C
FC-C-0305	RT14	6.5	2.3	28±2	0.48±0.05	1/4	± 5%	250	+ 350~-1000ppm/°C	-55 ~ 125°C
FC-C-0306	RT15	9.5	3.5	28±2	0.60±0.05	1/2	± 5%	350	+ 350~-1000ppm/°C	-55 ~ 125°C
FC-C-0307	RT16	12.0	3.9	28±2	0.70±0.05	1	± 5%	500	+ 350~-1000ppm/°C	-55 ~ 155°C
FC-C-0308	RT17	15.0	5.5	28±2	0.80±0.05	2	± 5%	500	+ 350~-1000ppm/°C	-55 ~ 155°C

OXIDIZED METAL FILM RESISTOR

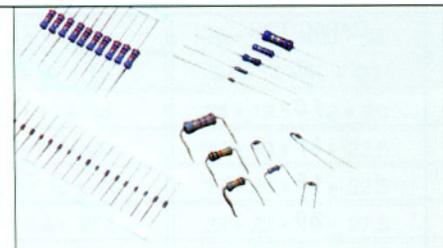
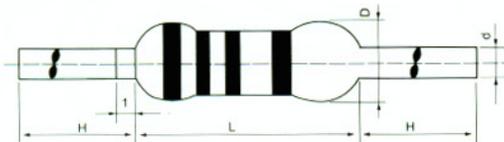
FIGURE AND DIMENSION



PART NUMBER	TYPE	RATING POWER (W)	SIZE(mm)				ALLOW TOLERANCE	LIMIT VOLTAGE (V)	TEMPERATURE COEFFICIENT	TEMPERATURE LIMITS
			L	D	H	d				
FC-C-0309	RY20	1/2	9.5	3.5	28±2	0.60±0.05	± 1%	250V	± 350PPM/°C	-55 ~ +155°C
		1	12.0	3.9		0.70±0.05		350V		
		2	15.0	5.5		0.80±0.05	± 5%	350V		
		3	25.0	8.6		0.80±0.05				

METAL FILM FIXED RESISTOR

FIGURE AND DIMENSION



PART NUMBER	TYPE	RATING POWER (W)	SIZE(mm)				ALLOW TOLERANCE	LIMIT VOLTAGE (V)	TEMPERATURE COEFFICIENT	TEMPERATURE LIMITS
			L	D	H	d				
FC-C-0310	RJ13	1/6	3.5	1.7	28±2	0.45±0.05	± 1% ±5%	200V	± 100PPM/°C	-55 ~ +125°C
FC-C-0311	RJ14	1/4	6.5	2.3		0.48±0.05		250V		
FC-C-0312	RJ15	1/2	9.5	3.5		0.60±0.05	± 1% ±5%	350V	± 100PPM/°C	-55 ~ +155°C
FC-C-0313	RJ16	1	12.0	3.9		0.70±0.05		500V		
FC-C-0314	RJ17	2	15.0	5.5	0.80±0.05	± 1% ±5%	750V			

CHIP RESISTOR

● FEATURES

- Miniature, light-weight
- Ideal for reflow and flow solder
- Low assembly cost, suit for automatic SMT equipment
- Stable properties, high reliability
- Superior mechanical and frequency characteristics



● HOW TO ORDER

RC		05		K		103		J		T	
Product Code	Type	Resistance Temperature Coefficient		Resistance Value		Resistance Tolerance		Code	Packaging style	Chip Resistor	
02	0402	Code	T.C.R	E-24: Significant figures + number of zeros	Code	Tolerance	T	Tape & Reel	Chip Resistor		
03	0603	K	< ±100PPM/°C	E-24: Significant figures + number of zeros	L	±1%	B	Bulk case	Chip Resistor		
05	0805	L	< ±250PPM/°C	Letter R is decimal point E-24:1R0=1.0Ω 103=10KΩ E-96:1003=100KΩ Jumper is expressed by 000.	J	±2%			Chip Resistor		
06	1206				O	±5%			Chip Resistor		
					Chip Jumper				Chip Resistor		

● STANDARD RESISTANCE SERIES

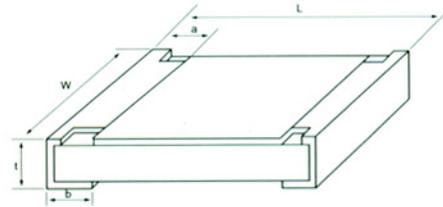
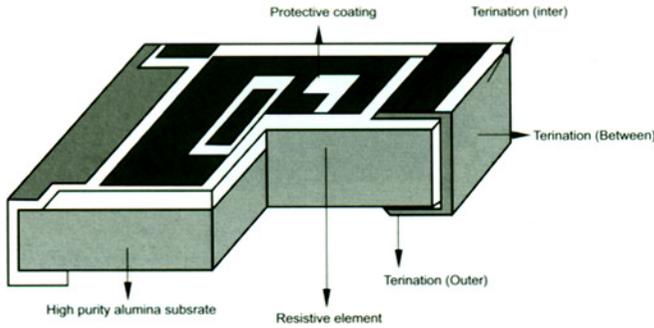
E-24 Tolerance= ± 5%

1.0	1.1	1.2	1.3	1.6	1.8	2.0	2.2	2.4	2.7	3.0
3.3	3.6	3.9	4.3	5.1	5.6	6.2	6.8	7.5	8.2	9.1

E-96 Tolerance= ± 1%

1.00	1.02	1.05	1.07	1.10	1.13	1.15	1.81	1.21	1.24	1.27	1.30
1.33	1.37	1.40	1.43	1.47	1.51	1.54	1.58	1.62	1.65	1.69	1.74
1.78	1.82	1.87	1.91	1.96	2.00	2.05	2.10	2.15	2.21	2.26	2.32
2.37	2.43	2.49	2.55	2.61	2.67	2.74	2.80	2.87	2.94	3.01	3.90
3.16	3.24	3.32	3.40	3.48	3.57	3.65	3.74	3.83	3.92	4.02	4.12
4.22	4.32	4.42	4.53	4.64	4.75	4.87	4.99	5.11	5.23	5.36	5.49
5.62	5.76	5.90	6.04	6.19	6.34	6.49	6.65	6.81	6.98	7.15	7.32
7.50	7.68	7.87	8.06	8.25	8.45	8.66	8.87	9.09	9.31	9.53	9.76

● Construction and Dimensions



Type	Dimensions(mm)				
	L	W	a	b	f
RC - 02	1.0±0.05	0.5±0.05	0.2±0.1	0.25 ^{+0.05} / _{0.010}	0.35±0.05
RC - 03	1.6±0.15	0.8±0.15	0.3±0.15	0.2±0.15	0.45±0.1
RC - 05	2.0±0.15	1.25±0.15	0.4±0.20	0.3±0.15	0.5±0.1
RC - 06	3.1±0.15	1.6±0.15	0.5±0.20	0.4±0.15	0.60±0.1

● Rated Power

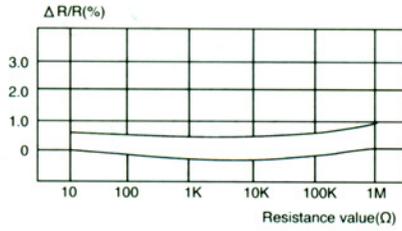
Item	0402	0603	0805	1206
Rated power	1/16W	1/16W	1/10W	1/8W
Max. Operating Voltage	50V	50V	150V	220V
Max. Over Load Voltage	100V	100V	200V	400V
Resistance Tolerance	±1%(F) ±2%(G) ±5%(J)			
Resistance Range	E-24、E-96 Series			
Jumper Rate Current	1A	1A	2A	2A
Jumper Resistance Value	50m Ω Max			
Operating Temperature Range	-50°C~+125°C			
Temperature Coefficient	±250ppm/°C/±100ppm/°C			
Rated Temperature	+70°C			

● Characteristics

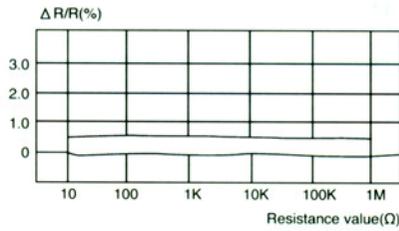
Item	1%	2%、5%	Test Methods(JIS C 5202)
Temperature Cycling	+(0.5%+0.05Ω)	+(1.0%+0.05Ω)	-55°C~+125°C
Short Time Over Load	+(1%+0.05Ω)	+(2%+0.1Ω)	Rated Voltage x2.5 for 5 seconds
Resistance To Soldering Heat	+(0.5%+0.05Ω)	+(1%+0.05Ω)	260°C±5°C for 10 seconds
Moisture Loading Life	+(0.5%+0.05Ω)	+(3%+0.1Ω)	40°C±2°C 90-95%RH 1000Hrs at RCWV 1.5 Hrs ON, 0.5Hrs OFF
Load Life	+(1%+0.05Ω)	+(3%+0.1Ω)	70°C±2°C, 1000Hrs at RCWV 1.5 Hrs ON,0.5Hrs OFF
Solderability	> 95% Coverage	> 95% Coverage	235°C±5°C , for 3 seconds
Bending Strength	+(1%+0.05Ω)	+(1%+0.05Ω)	Bending Distance:3mm(10 Seconds)

● Characteristics Data

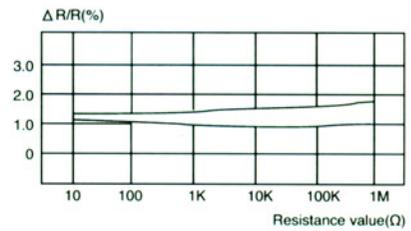
Load life 1000Hrs



Moisture loading life 1000Hrs



Short time overload



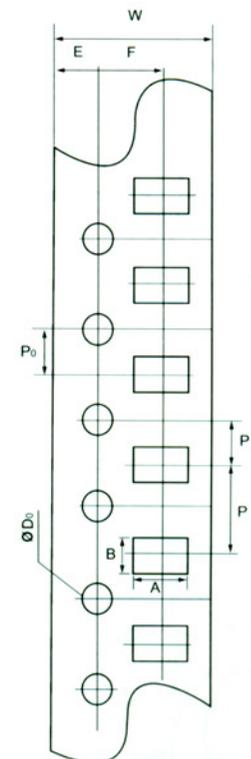
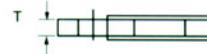
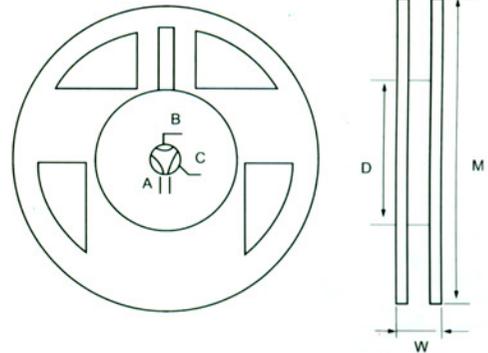
● Packaging

Tape and Reel

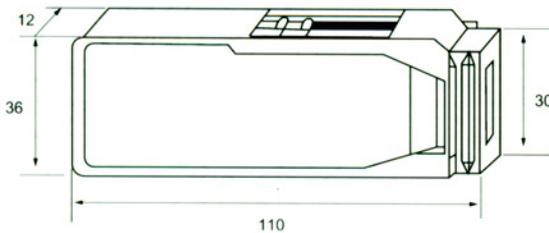
Type	A	B	W	F	E
RC-02	1.2±0.1	0.7±0.1	8.0±0.20	3.5±0.05	1.75±0.1
RC-03	1.85±0.10	1.10±0.10	8.0±0.20	3.5±0.05	1.75±0.1
RC-05	3.35±0.15	1.65±0.20	8.0±0.20	3.5±0.05	1.75±0.1
RC-06	3.50±0.15	1.90±0.20	8.0±0.20	3.5±0.05	1.75±0.1

Type	P	P ₁	P ₀	∅D ₀	T
RC-02	2.0±0.01	2.0±0.05	4.0±0.05	1.5±0.10	0.6max
RC-03	4.0±0.01	2.0±0.05	4.0±0.05	1.5±0.10	0.6±0.1
RC-05	4.0±0.01	2.0±0.05	4.0±0.05	1.5±0.10	0.75±0.1
RC-06	4.0±0.01	2.0±0.05	4.0±0.05	1.5±0.10	0.75±0.1

Type	W	M	A	B	C	D
RC-02						
RC-03	12.5±0.5	178±2.0	2.0±0.5	13.5±0.5	21.0±0.5	80.0±2.0
RC-05						
RC-06						

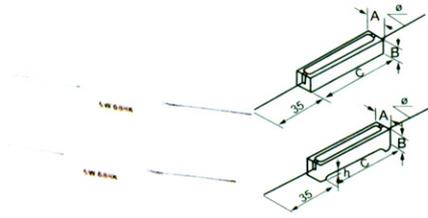


Bulk Carrier

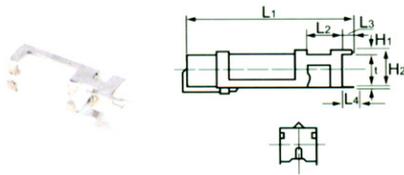


● Packaging Quantity

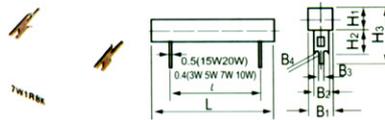
Tape & Reel (Pcs/Reel)		Pcs/case			
02	03,05,06	02	03	05	06
10000	5000	50000	25000	10000	5000



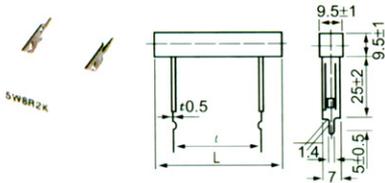
Part Number	Type		Power (W)	Resistance Value Range (Ω)	Size (mm)			
					A/B	C	\varnothing	h
FC-C-0315	RX27-1-2	RX27-2-2	2	0.15 ~ 200	6.4±1	17.5±1.2	0.8	1.5
	RX27-1-3	RX27-2-3	3	0.20 ~ 390	8.0±1	22.0±1.5	0.8	1.5
	RX27-1-5	RX27-2-5	5	0.24 ~ 680	9.5±1	22.0±1.5	0.8	1.5
FC-C-0316	RX27-1-7	RX27-2-7	7	0.33 ~ 1500	9.5±1	35.0±1.5	0.8	3.0
	RX27-1-10	RX27-2-10	10	0.51 ~ 2000	9.5±1	48.0±1.5	0.8	3.0
	RX27-1-15		15	1.00 ~ 2400	12.5±1.2	48.0±1.5	1.0	
	RX27-1-20		20	1.00 ~ 3000	12.5±1.2	63.5±2.0	1.0	



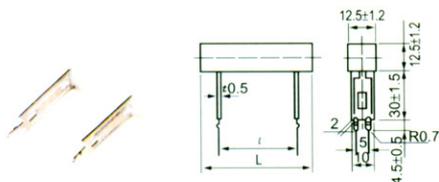
Part Number	Type	Power (W)	Resistance Value Range (Ω)	Size (mm)						
				L1	L2	L3	L4	H1	H2	t
FC-C-0317	RX27-1V-7	7	0.33 ~ 1500	47±2.0	8	4	5	1.5	11	0.5
	RX27-1V-10	10	0.51 ~ 2000	60±2.5	8	4	5	1.5	11	0.5
	RX27-1V-15	15	1.00 ~ 2400	61.5±2.5	9	4.5	6.5	2.5	14	0.5
	RX27-1V-20	20	1.00 ~ 3000	77.0±3.0	9	4.5	6.5	2.5	14	0.5



Part Number	Type	Power (W)	Resistance Value Range (Ω)	Size (mm)							
				L	l	B ₁ /H ₁	B ₂	B ₃	B ₄	H ₂	H ₃
FC-C-0318	RX27-3A-3	3	0.20 ~ 390	24	12.5	9.0	5	1.4	1.6	10	23.5
	RX27-3A-5	5	0.24 ~ 680	27	15	9.5	5	1.4	1.6	10	24
	RX27-3A-7	7	0.33 ~ 1500	35	22.5	9.5	5	1.4	1.6	10	24
	RX27-3A-10	10	0.51 ~ 2000	48	35	9.5	5	1.4	1.6	10	24
	RX27-3A-15	15	1.00 ~ 2400	48	32.5	12.5	10	2.7	3.0	15	34.6
	RX27-3A-20	20	1.00 ~ 3000	63	50.0	12.5	10	2.7	3.0	15	34.6



Part Number	Type	Power (W)	Resistance Value Range (Ω)	Size (mm)	
				L	l
FC-C-0319	RX27-3B-5	5	0.24 ~ 680	27±1.5	15±2
	RX27-3B-7	7	0.33 ~ 1200	35±1.5	22.5±2
	RX27-3B-10	10	0.51 ~ 1800	48±1.5	35±2
	RX27-3B-15	15	1.00 ~ 2200	48.0±1.5	32.5±1.0
	RX27-3B-20	20	1.00 ~ 2700	63.5±1.5	50.0±1.0



Part Number	Type	Power (W)	Resistance Value Range (Ω)	Size (mm)	
				L	l
FC-C-0320	RX27-3C-15	15	1.0 ~ 2200	48.0±1.5	32.5±1.0
	RX27-3C-20	20	1.0 ~ 2700	63.5±1.5	50.0±1.0

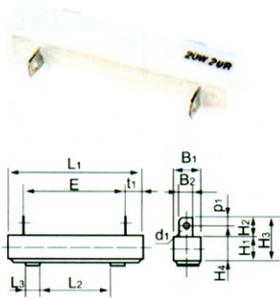
Ambient Temperature: -25°C ~ +275°C
 Resistance Value Precision: ±5%(J) ±10%(K)
 Temperature Coefficient: ±250ppm/°C

E-mail:ceiecz@public.cz.js.cn

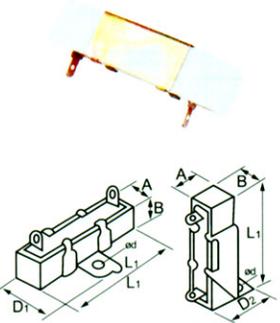
Http://www.ceiecz.com

Tel: +86-519-6600389

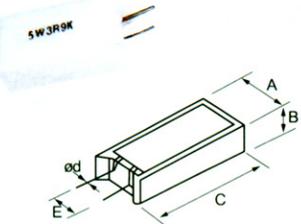
Fax: +86-519-6607378, 6606496



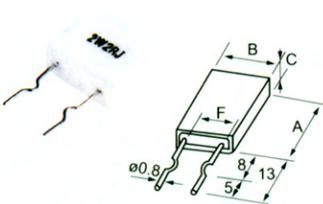
Part Number	Type	Power (W)	Resistance Value Range (Ω)	Size (mm)			
				L ₁	L ₂	L ₃	B ₁ -H ₁
FC-C-0321	RX27-4-10	10	0.51 ~ 2000	48.0±1.0	25±1.0	4.5	9.5±1.0
	RX27-4-15	15	1.00 ~ 2400	48.0±1.0	25±1.0	7.0	12.5±1.2
	RX27-4-20	20	1.00 ~ 3000	63.5±1.0	25±1.0	7.0	12.5±1.2
	RX27-4-25	25	1.20 ~ 3600	63.5±1.0	25±1.0	8.0	16.0±1.2
	RX27-4-30	30	1.50 ~ 4300	75.0±1.2	40±1.2	10.0	19.0±1.5
	RX27-4-40	40	1.80 ~ 5600	90.0±2.5	40±2.5	10.0	19.0±1.5
B ₂	H ₃	H ₄	P ₁	E	t ₁	d ₁	
5	16.5 ^{+1.5} _{-1.0}	0.8	2.5	33.0-2	0.4	2.0	
6	21.0 ^{+2.0} _{-1.0}	1.0	3.0	34.0-2	0.5	2.0	
6	21.0 ^{+2.0} _{-1.0}	1.0	3.0	49.5-3	0.5	2.5	
7.5	29.0 ^{+3.0} _{-1.5}	1.0	3.5	46.5-3	0.5	3.0	
7.5	30.0 ^{+3.0} _{-1.5}	1.0	3.5	56.0-4	0.5	3.0	
7.5	30.0 ^{+3.0} _{-1.5}	1.0	3.5	71.0-4	0.5	3.0	



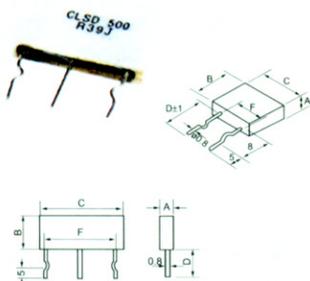
Part Number	Type	Power (W)	Resistance Value Range (Ω)	Size (mm)			
				L ₁	D ₂	\varnothing d	B ₁ -H ₁
FC-C-0322	RX27-4 ^{HS} _{HV} -10	10	0.51 ~ 2000	48.0±1.0	25±1.0	4.5	9.5±1.0
	RX27-4 ^{HS} _{HV} -15	15	0.51 ~ 2400	48.0±1.0	25±1.0	4.0	12.5±1.2
	RX27-4 ^{HS} _{HV} -20	20	1.00 ~ 3000	63.5±1.0	25±1.0	4.0	12.5±1.2
	RX27-4 ^{HS} _{HV} -25	25	1.20 ~ 3600	63.5±1.0	25±1.0	4.0	16.0±1.2
	RX27-4 ^{HS} _{HV} -30	30	1.50 ~ 4300	75.0±1.2	40±1.2	4.0	19.0±1.2
	RX27-4 ^{HS} _{HV} -40	40	1.80 ~ 5600	90.0±2.5	40±2.5	4.0	19.0±1.5



Part Number	Type	Power (W)	Resistance Value Range (Ω)	Size (mm)				
				A	B	C	E	D
FC-C-0323	RGG2	2	0.22 ~ 270	11	7	20	5	0.8
	RGG3	3	0.27 ~ 680	12	8	25	5	0.8
	RGG5	5	0.27 ~ 680	13	9	26	5	0.8
	RGG7	7	0.68 ~ 1200	13	9	38.5	5	1.0
	RGG10	10	1.00 ~ 1800	16	13	35	7.5	1.0



Part Number	Type	Power (W)	Resistance Value Range (Ω)	Size (mm)			
				A	B	C	F
FC-C-0324	RGCW2	2	1.0 ~ 50	10	15	6	9
	RGCW3	3	1.0 ~ 50	13	15	6	9
	RGCW5	5	1.0 ~ 100	18	15	6	9



Part Number	Type	Power (W)	Resistance Value Range (Ω)	Size (mm)				
				A	B	C	D	F
FC-C-0325	RGC2	2	1.0 ~ 1	5	9	14±1	13	9
	RGC3	3	0.1 ~ 1	5	13	14±1	13	9
	RGC5	5	0.1 ~ 1	5	17	14±1	13	9
	RGC22	2+2	(0.1 ~ 1) × 2	5±0.5	9±1	26±1	13	20±1
	RGC33	3+3	(0.1 ~ 1) × 2	5±0.5	13±1	26±1	13	20±1
	RGC55	5+5	(0.1 ~ 1) × 2	5±0.5	17±1	26±1	13	20±1

1. Temperature Coefficient: a < 300ppm/°C

2. Insulation Resistance 100M

ZINC OXIDE VARISTOR



● HOW TO ORDER

NR	05	K	180	T
Non-linear Resistor	Element Diameter	Tolerance	Varistor Voltage(V)	Packaging Size
	05 5	K ±10%	180=18 x 10 ⁰	T Bulk
	40 40	M ±20%	181=18 x 10 ¹	B Tape & Reel
			182=18 x 10 ²	

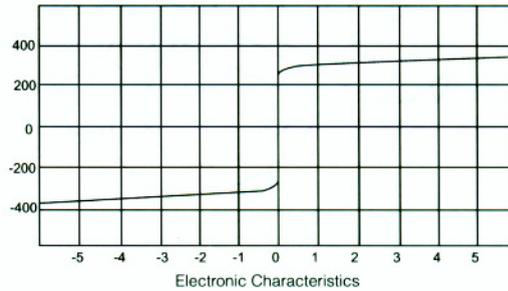
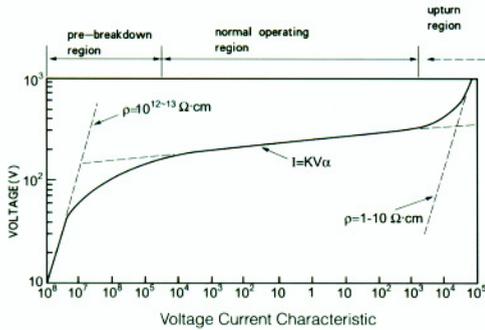
● FEATURES

- Widely voltage range 18v-1.Kv
- Fast response to the rapidly increase Voltage (Musec.)
- Excellent non-linearity voltage

● Symmetric V-1 characteristics

- (2000A/cm²) Great withstanding surge current (2000A/cm²)
- No follow - on current
- Long life

● CHARACTERISTICS



● Testing Conditions

Item	Test Methods
Operating Temperature Range	-40°C ~ +85°C
Storage Temperature Range	-40°C ~ +125°C
Varistor Voltage	Element Diameter < 5mm Test Current 0.1mA(DC) ; Element Diameter ≥ 5mm Test Current 1mA(DC)
Max Clamping Voltage	Current Waveshape 8 x 20μs
Energy	Current input of Rectangular Wave
Max Withstanding Surge Current	Current Waveshape 8 x 20μs

● GENERAL TYPE

General type is widely used in surge protection for IC, diode, triac semiconductor, thyristor, consumer, military industry telecommunication measuring & controlling Instrument etc.

● LIGHTNING ARRESTER TYPE

Lightning arrester type is ideal for semiconductor, singnalrelay, telecommunication, calibrating equipment, communication intermedium station, distribution board, surge absorption and lightning-protection of all sorts of electric equipment because of the properties, with the Greatwithstanding surge current, wide voltage range, quick responding speed and low residual voltage etc.

	Varistor Voltage (V)	D Max	d ±1.0	W ±1.0	H Max	T Max	
05	18 ~ 82	7.0	0.6	5.0	10.0	3.5	
	100 ~ 470	7.5	0.6	5.0	10.0	6.0	
07	18 ~ 470	9.0	0.6	5.0	12.0	6.0	
	18 ~ 330	13.5	0.8	7.5	16.5	5.4	
10	360 ~ 1100	14.0	0.8	7.5	17.0	8.5	
	18 ~ 330	17.0	0.8	7.5	20.0	5.4	
14	360 ~ 1100	17.5	0.8	7.5	20.5	8.5	
	180	25.0	0.8	15.0	30.0	12.0	
20	18 ~ 330	23.0	1.0	10.0	27.0	5.5	
	360 ~ 1100	24.0	1.0	10.0	28.0	9.0	
	1800	25.0	1.0	15.0	30.0	12.0	

Part No.	Dimensions (Max)(mm)			
	D	T	W	d
FNR-25	30	12	15	1.5
FNR-32	38	13	18	1.5
FNR-40	45	13	20	1.5

● GENERAL TYPE PRODUCTS SERIES

Part No.	Varistor Voltage	Maximum Operating Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8x20us)		Energy (2ms)		Rated Wattage	Capacitance (Reference) 1kHz
	V(v)	AC (V)	DC (V)	VC (V)	IP (A)	2Time (A)	1Time (A)	2ms (J)	10/1000 (J)	(W)	(PF)
FNR-05K180	18	11	14	40	1	50	100	0.3	0.4	0.01	1600
FNR-07K180	18	11	14	36	2.5	125	250	0.8	0.9	0.02	3500
FNR-10K180	18	11	14	36	5	250	500	1.5	2.1	0.05	7500
FNR-14K180	18	11	14	36	10	500	1000	3.5	4.0	0.1	18000
FNR-20K180	18	11	14	36	20	1000	2000	10.0	11.0	0.2	37000
FNR-05K220	22	14	18	48	1	50	100	0.4	0.5	0.01	1300
FNR-07K220	22	14	18	43	2.5	125	250	0.9	1.1	0.02	2800
FNR-10K220	22	14	18	43	5	250	500	2.0	2.5	0.05	6000
FNR-14K220	22	14	18	43	10	500	1000	4.0	5.0	0.1	15000
FNR-20K220	22	14	18	43	20	1000	2000	13.0	14.0	0.2	30000
FNR-05K270	27	17	22	60	1	50	100	0.5	0.6	0.01	1050
FNR-07K270	27	17	22	53	2.5	125	250	1.0	1.4	0.02	2000
FNR-10K270	27	17	22	53	5	250	500	2.5	3.0	0.05	4000
FNR-14K270	27	17	22	53	10	500	1000	5.0	6.0	0.1	10000
FNR-20K270	27	17	22	53	20	1000	2000	15.0	18.0	0.2	22000
FNR-05K330	33	20	26	73	1	50	100	0.6	0.8	0.01	900
FNR-07K330	33	20	26	65	2.5	125	250	1.2	1.7	0.02	1500
FNR-10K330	33	20	26	65	5	250	500	3.0	4.0	0.05	3000
FNR-14K330	33	20	26	65	10	500	1000	6.0	7.5	0.1	7500
FNR-20K330	33	20	26	65	20	1000	2000	20.0	13.0	0.2	17000
FNR-05K390	39	25	31	86	1	50	100	0.8	0.9	0.01	500
FNR-07K390	39	25	31	77	2.5	125	250	1.5	2.1	0.02	1350
FNR-10K390	39	25	31	77	5	250	500	3.5	4.6	0.05	2600
FNR-14K390	39	25	31	77	10	500	1000	7.0	8.6	0.1	6500
FNR-20K390	39	25	31	77	20	1000	2000	24.0	26.0	0.2	15000
FNR-05K470	47	30	38	104	1	50	100	1.0	1.1	0.01	450
FNR-07K470	47	30	38	93	2.5	125	250	1.8	2.5	0.02	1150
FNR-10K470	47	30	38	93	5	250	500	4.5	5.5	0.05	2200
FNR-14K470	47	30	38	93	10	500	1000	8.5	10.0	0.1	5500
FNR-20K470	47	30	38	93	20	1000	2000	30.0	33.0	0.2	13000
FNR-05K560	56	35	45	123	1	50	100	1.0	1.3	0.01	400
FNR-07K560	56	35	45	110	2.5	125	250	2.2	3.1	0.02	950
FNR-10K560	56	35	45	110	5	250	500	5.5	7.0	0.05	1800
FNR-14K560	56	35	45	110	10	500	1000	10.0	11.0	0.1	4500
FNR-20K560	56	35	45	110	20	1000	2000	35.0	41.0	0.2	110000
FNR-05K680	68	40	56	150	1	50	100	1.2	1.6	0.01	350
FNR-07K680	68	40	56	135	2.5	125	250	2.5	3.6	0.02	700
FNR-10K680	68	40	56	135	5	250	500	6.5	8.2	0.05	1300
FNR-14K680	68	40	56	135	10	500	1000	12.0	14.0	0.1	3300
FNR-20K680	68	40	56	135	20	1000	2000	40.0	46.0	0.2	7000
FNR-05K820	82	50	65	145	1	50	100	1.7	2.5	0.1	250
FNR-07K820	82	50	65	135	2.5	125	250	3.5	5.5	0.25	550
FNR-10K820	82	50	65	135	5	250	500	8.0	12.0	0.4	1800
FNR-14K820	82	50	65	135	10	500	1000	14.0	22.0	0.6	2900
FNR-20K820	82	50	65	135	20	1000	2000	27.0	38.0	1.0	5500
FNR-05K101	100	60	85	175	1	50	100	2.0	3.0	0.1	200
FNR-07K101	100	60	85	165	2.5	125	250	4.0	6.5	0.25	500
FNR-10K101	100	60	85	165	5	250	500	10.0	15.0	0.4	1400
FNR-14K101	100	60	85	165	10	500	1000	18.0	28.0	0.6	2400
FNR-20K101	100	60	85	165	20	1000	2000	30.0	45.0	1.0	4800



ZINC OXIDE VARISTOR

Part No.	Varistor Voltage V(v)	Maximum Operating Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8x20us)		Energy (2ms)		Rated Wattage (W)	Capacitance (Reference) 1kHz (PF)
		AC (V)	DC (V)	VC (V)	IP (A)	2Time (A)	1Time (A)	2ms (J)	10/1000 (J)		
FNR-05K121	120	75	100	210	5	200	400	2.5	4.0	0.1	170
FNR-07K121	120	75	100	200	10	600	1200	5.0	7.8	0.25	450
FNR-10K121	120	75	100	200	25	1250	2500	12.0	18.0	0.4	1100
FNR-14K121	120	75	100	200	50	2500	4500	20.0	32.0	0.6	1900
FNR-20K121	120	75	100	200	100	4000	6500	40.0	55.0	1.0	3800
FNR-05K151	150	95	125	260	5	200	400	3.0	4.8	0.1	140
FNR-07K151	150	95	125	250	10	600	1200	6.0	9.7	0.25	350
FNR-10K151	150	95	125	250	25	1250	2500	16.0	22.0	0.4	900
FNR-14K151	150	95	125	250	50	2500	4500	25.0	40.0	0.6	1500
FNR-20K151	150	95	125	250	100	4000	6500	50.0	70.0	1.0	3000
FNR-05K181	180	115	150	315	5	200	400	3.5	5.5	0.1	110
FNR-07K181	180	115	150	300	10	600	1200	8.0	1.0	0.25	300
FNR-10K181	180	115	150	300	25	1250	2500	18.0	25.0	0.4	700
FNR-14K181	180	115	150	300	50	2500	4500	30.0	50.0	0.6	1250
FNR-20K181	180	115	150	300	100	4000	6500	60.0	85.0	1.0	2500
FNR-05K201	200	130	170	355	5	200	400	4.0	6.5	0.1	80
FNR-07K201	200	130	170	340	10	600	1200	10.0	13.0	0.25	250
FNR-10K201	200	130	170	340	25	1250	2500	20.0	30.0	0.4	500
FNR-14K201	200	130	170	340	50	2500	4500	35.0	57.0	0.6	1000
FNR-20K201	200	130	170	340	100	4000	6500	70.0	95.0	1.0	2000
FNR-05K221	220	140	180	380	5	200	400	4.5	7.0	0.1	70
FNR-07K221	220	140	180	360	10	600	1200	10.0	14.0	0.25	250
FNR-10K221	220	140	180	360	25	1250	2500	23.0	32.0	0.4	450
FNR-14K221	220	140	180	360	50	2500	4500	40.0	60.0	0.6	1000
FNR-20K221	220	140	180	360	100	4000	6500	75.0	100.0	1.0	200
FNR-05K241	240	150	200	415	5	200	400	5.0	8.0	0.1	70
FNR-07K241	240	150	200	395	10	600	1200	10.0	15.0	0.25	2000
FNR-10K241	240	150	200	395	25	1250	2500	23.0	35.0	0.4	400
FNR-14K241	240	150	200	395	50	2500	4500	40.0	63.0	0.6	900
FNR-20K241	240	150	200	395	100	4000	6500	75.0	108.0	1.0	1800
FNR-05K271	270	175	225	475	5	200	400	6.0	8.5	0.1	65
FNR-07K271	270	175	225	455	10	600	1200	12.0	18.0	0.25	170
FNR-10K271	270	175	225	455	25	1250	2500	30.0	40.0	0.4	350
FNR-14K271	270	175	225	455	50	2500	4500	50.0	70.0	0.6	750
FNR-20K271	270	175	225	455	100	4000	6500	90.0	127.0	1.0	1600
FNR-05K301	300	200	250	525	5	200	400	6.0	9.0	0.1	55
FNR-07K301	300	200	250	500	10	600	1200	13.0	20.8	0.25	150
FNR-10K301	300	200	250	500	25	1250	2500	27.0	42.0	0.4	325
FNR-14K301	300	200	250	500	50	2500	4500	55.0	75.0	0.6	650
FNR-20K301	300	200	250	500	100	4000	6500	105.0	135.0	1.0	1400
FNR-05K331	330	210	275	580	5	200	400	6.5	9.0	0.1	60
FNR-07K331	330	210	275	550	10	600	1200	14.5	22.0	0.25	150
FNR-10K331	330	210	275	550	25	1250	2500	30.0	44.0	0.4	325
FNR-14K331	330	210	275	550	50	2500	4500	60.0	80.0	0.6	650
FNR-20K331	330	210	275	550	100	4000	6500	105.0	155.0	1.0	1400
FNR-05K361	360	230	300	620	5	200	400	7.5	10.0	0.1	50
FNR-07K361	360	230	300	595	10	600	1200	15.0	25.0	0.25	130
FNR-10K361	360	230	300	595	25	1250	2500	25.0	47.0	0.4	300
FNR-14K361	360	230	300	595	50	2500	4500	65.0	93.0	0.6	550
FNR-20K361	360	230	300	595	100	4000	6500	120.0	163.0	1.0	1200

PTC THERMISTOR

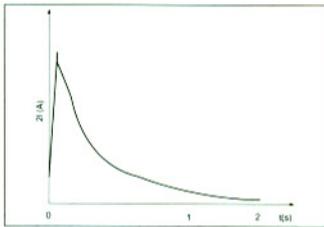
● FEATURES

- High ageing coefficient
- Superior withstanding voltage and oxidation-resistance

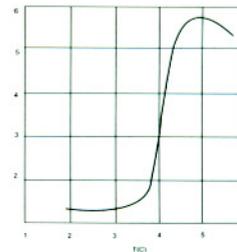
● HOW TO ORDER

MZ	2	1	L	201	R	M	
PTC Thermistor	Product style	Product style	Sequence No.	Switch Temperature	Resistance Value (Ω)	OHM	Tolerance
	7 Degaussing	MZ7	The number of expresses No. of pin	L 40°C	201 = 20×10^1 8R0 = 8.0	K $\pm 10\%$ M $\pm 20\%$ N $\pm 30\%$	
	9 Starter			K 60°C			
	2 Current-Limited	MZ2, MZ9	Coating type	M 80°C			
	3 Delay-Time		Plastic Type	N 100°C			
	4 Auto-Control-heat		Empty body	P 120°C			
		MZ3	No mark	R 135°C			
		MZ4	Round				
			Queue				

● Characteristics



Current-Time Curve



Resistance-Temperature Curve

● MZ3 TYPE THERMISTOR

● Application Environmental Conditions

- Environmental Temperature: $-10^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Relative humidity: $93\% (+40^{\circ}\text{C} \pm 2^{\circ}\text{C})$
- Vibration frequency: 10-55Hz
- Acceleration: 98m/s^2

● FEATURES

- Delay life and energy-saving is available for electronic light and ballast
- One of restricting current unite in digital multimeter

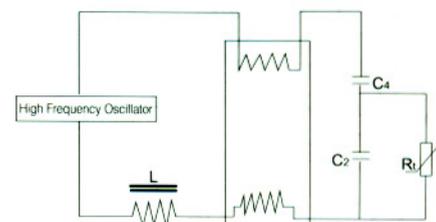
● DIMENSIONS

	Part No.	D Max	T Max	L Max	W ± 0.5	d ± 0.1
	MZ3-L100RN	8	4.5	35	5	0.55
	MZ3-K100RN	8	4.5	35	5	0.55
	MZ3-M100RN	10	5.5	35	5	0.55
	MZ3-N100RN	10	5.5	35	5	0.55
	MZ3-P100RN	10	5.5	35	5	0.55

● MAIN TECHNICAL PARAMETER

Part No.	Switch Temperature ($^{\circ}\text{C}$)	Resistance Value (Ω)	Rated Voltage (V)	Break Down Voltage (V)
MZ3-L100RN	40 ± 5	100-2000	270	600
MZ3-K100RN	60 ± 5	100-2500		
MZ3-M100RN	80 ± 5	100-4000		
MZ3-N100RN	100 ± 5	100-2000		
MZ3-P100RN	120 ± 5	100-2000		

APPLICATION CIRCUIT



● MZ2 TYPE THERMISTOR

● Features

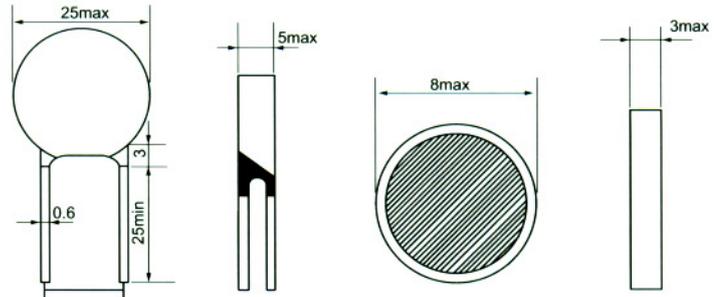
Compact for telecommunication and AC circuit.

● Application Environmental Conditions

Environmental Temperature: $-10^{\circ}\text{C}\sim+60^{\circ}\text{C}$

Relative humidity: 40-75%($+40^{\circ}\text{C}\pm 2^{\circ}\text{C}$)

Atmosphere pressure: 86-106Kpa



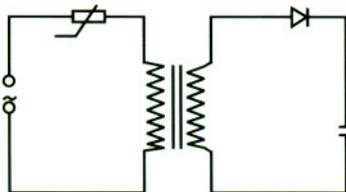
● Parameter of Transformer

Part No.	Non-operating Current (mA)	Tip Current (mA)	Rated Resistance (Ω)	Max Voltage (V)	Max Dimensions (mm)	Matched Transformer ※ (W)
MZ21P4R7RM	390	900	$4.7\pm 20\%$	140	$\phi 19.0\times 6.0$	35
MZ21P5R6RM	340	780	$5.6\pm 20\%$		$\phi 17.0\times 6.0$	30
MZ21P6R8RM	290	670	$6.8\pm 20\%$		$\phi 14.0\times 6.0$	25
MZ21P100RM	220	510	$10\pm 20\%$		$\phi 13.0\times 6.0$	20
MZ21P150RM	170	400	$15\pm 20\%$		$\phi 11.6\times 6.0$	15
MZ21P220RM	140	330	$22\pm 20\%$		$\phi 9.6\times 6.0$	10
MZ21P330RM	100	230	$33\pm 20\%$		$\phi 7.4\times 6.0$	5
MZ21P120RM	250	610	$12\pm 20\%$	270	$\phi 19.5\times 6.0$	35
MZ21P270RM	150	360	$27\pm 20\%$		$\phi 14.0\times 6.0$	20
MZ21P390RM	100	240	$39\pm 20\%$		$\phi 10.0\times 6.0$	15
MZ21P560RM	80	190	$56\pm 20\%$		$\phi 8.0\times 6.0$	10
MZ21P820RM	60	150	$82\pm 20\%$		$\phi 8.0\times 6.0$	10
MZ21P121RM	35	85	$120\pm 20\%$		$\phi 6.5\times 6.0$	5
MZ21P181RM	29	70	$180\pm 20\%$		$\phi 6.5\times 6.0$	3

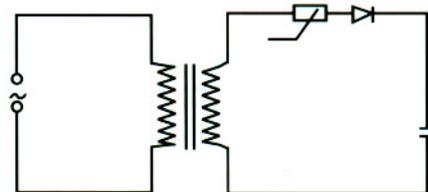
● Operating Temperature range: $-10^{\circ}\text{C}\sim+60^{\circ}\text{C}$

※ It means typical capacitance of the transformer which can be used.

● APPLICATION CIRCUIT



(a)

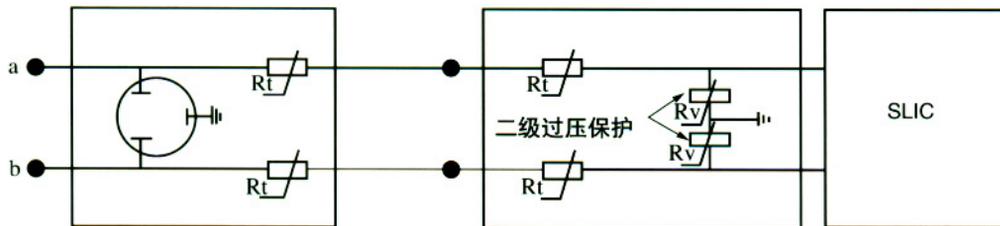


(b)

● THE PARAMETER OF TELECOMMUNICATION FACILITIES

Part No.	Nominal Resistance 25°C (Ω)	Non-operating Current (mA)	Responding Time						Breakdown Voltage (VAC)	Current(Time)		Dimensions (Max)
			3A ↓ 0.5A	2A ↓ 0.5A	1A ↓ 0.5A	0.75A ↓ 0.15A	0.5A ↓ 0.15A	35A ↓ 0.15A		Power Frequency current 3A	Shock Current	
MZ21-8RORM	8	150	0.4	0.8	3	10	25	70	270	20	10	∅9 x 3.5
MZ21-120RM	12	110	0.3	0.45	1.5	5	15	20	270	20	10	∅9 x 3.5
MZ21-180RM	18	110	0.2	0.35	1.2	5	15	20	270	20	10	∅8 x 3.5
MZ21-400RM	40	50	0.1	0.2	0.6	1	3	20	270	20	10	∅7.5 x 5
MZ21-500RM	50	50	0.1	0.3	0.6	1	3	20	270	20	10	∅7.5 x 5
MZ21-820RM	82	50	0.1	0.3	0.6	1	3	20	270	20	10	∅7.5 x 5
MZ21-101RM	100	50	0.15	0.25	0.6	1	2	3	270	20	10	∅9.0 x 4.5
MZ22-8RORM	8	150	0.4	0.8	3	10	25	70	250	20	10	10 x 9.0 x 5
MZ22-120RM	12	80	0.2	0.3	1.5	5	20	50	250	20	30	10 x 9.6 x 5
MZ22-180RM	18	110	0.2	0.35	1.2	5	15	20	250	20	30	10 x 9.6 x 5
MZ22-220RM	22	110	0.2	0.35	1.2	5	15	20	250	20	30	10 x 9.6 x 5
MZ22-270RM	27	90	0.1	0.2	0.5	0.8	2	4	250	20	30	10 x 9.6 x 5
MZ22-500RM	50	50	0.2	0.3	0.6	1	3	20	250	20	30	10 x 9.6 x 5
MZ23-8RORM	8	150	0.4	0.8	3	10	25	70	250	20	30	∅(7-9)x(1.6-2.5)
MZ23-120RM	12	130	0.3	0.5	2.5	7	20	50	250	20	30	∅(7-9)x(1.6-2.5)
MZ23-180RM	18	110	0.2	0.35	1.2	5	15	20	250	20	30	∅(6-9)x(1.6-2.5)
MZ23-220RM	22	110	0.2	0.35	1.2	5	15	20	250	20	30	∅(6-8)x(1.6-2.5)
MZ23-270RM	27	90	0.1	0.2	0.5	0.8	2	4	250	20	30	∅(6-8)x(1.6-2.5)

● Application Circuit



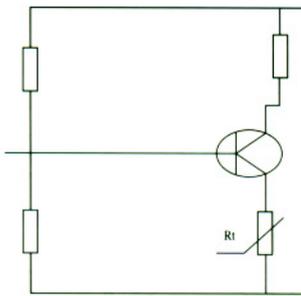
Rt: PTC
Rv: Varistor

● THE PARAMETER OF GENERAL CIRCUIT

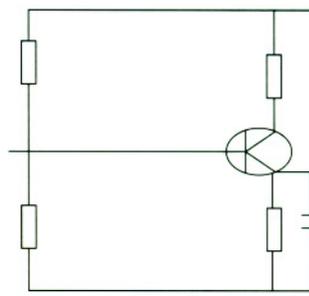
Part No.	Non-operating Current (mA)	Tip Current (mA)	Rated Resistance (Ω)	Switch Temperature ($^{\circ}\text{C}$)	Max Dimensions (mm)	Max Voltage (V)
MZ21-M201RM	10	20	200	80	$\phi 4 \times 5$	360
MZ21-M151RM	15	30	150		$\phi 6.5 \times 5$	360
MZ21-M101RM	40	80	100		$\phi 8.5 \times 5$	360
MZ21-M500RM	50	100	50		$\phi 8 \times 5$	270
MZ21-M100RM	130	260	10		$\phi 8.5 \times 5$	270
MZ21-M150RM	150	300	15		$\phi 10 \times 5$	270
MZ21-M100RM	180	360	10		$\phi 15 \times 5$	270
MZ21-N201RM	15	30	200	100	$\phi 4 \times 5$	270
MZ21-N151RM	30	60	150		$\phi 6.5 \times 5$	270
MZ21-N101RM	50	100	100		$\phi 6.5 \times 5$	270
MZ21-N820RM	80	160	82		$\phi 8 \times 5$	270
MZ21-N150RM	150	300	15		$\phi 13 \times 5$	270
MZ21-N100RM	180	360	10		$\phi 15 \times 5$	270
MZ21-N8R0RM	200	400	8		$\phi 15 \times 5$	270
MZ21-N5R0RM	250	500	5		$\phi 15 \times 5$	270
MZ21-N3R0RM	400	800	3		$\phi 25 \times 5$	270

Operating temperature range: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$

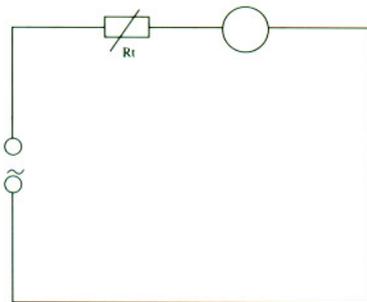
● Application Circuit



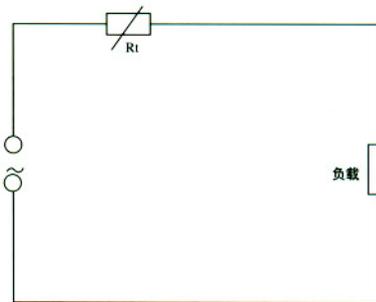
(a)



(b)

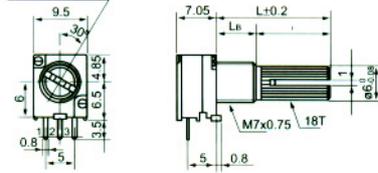
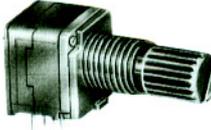
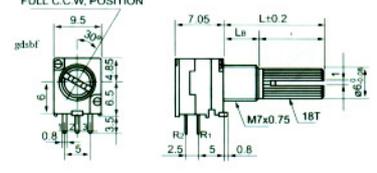
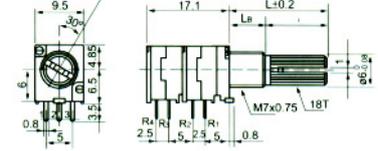
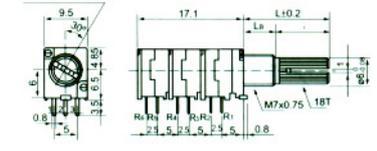
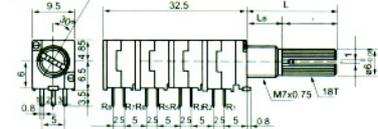
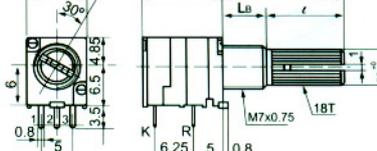
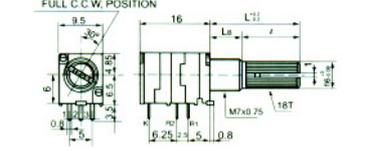
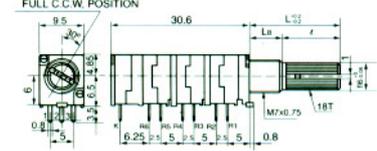
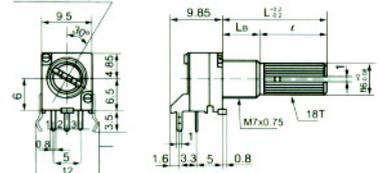
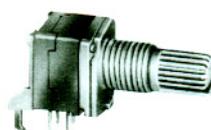
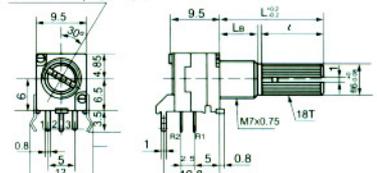
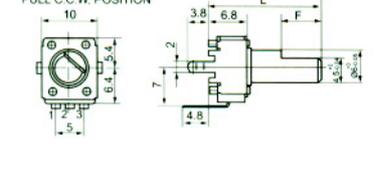
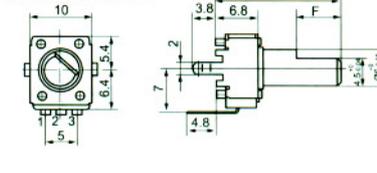


(c)



(d)

9mm ROTARY POTENTIOMETERS METAL SERIES

<p>FC-C-0326 (WH9011A-1-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 	<p>FC-C-0327 (WH9011A-2-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 
<p>FC-C-0328 (WH9011A-4-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 	<p>FC-C-0329 (WH9011A-6-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 
<p>FC-C-0330 (WH9011A-8-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 	<p>FC-C-0331 (WH9011AK-1-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 
<p>FC-C-0332 (WH9011AK-2-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 	<p>FC-C-0333 (WH9011AK-6-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 
<p>FC-C-0334 (WH9011A-1SJ-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 	<p>FC-C-0335 (WH9011A-2SJ-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 
<p>FC-C-0336 (WH9011A-1J-F)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 	<p>FC-C-0337 (WH9011A-2J-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> 

E-mail: ceiec@public.cz.js.cn

Http://www.ceiec.com

Tel: +86-519-6600389

Fax: +86-519-6607378, 6606496

9mm

ROTARY POTENTIOMETERS METAL SERIES

<p>FC-C-0338 WH9011A-2-H</p>	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>	<p>FC-C-0339 WH9011AK-2-H</p>	<p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>
----------------------------------	--	-----------------------------------	--

Specifications

- Resistance range: 5 ~ 250k Ω
- Tolerance of resistance: $\pm 20\%$
- Resistance law : A B C D
- Rated dissipation: 0.05W
- Rated voltage: 50V AC
- Terminal resistance: 10 Ω max
- Rotational noise: < 100mv
- Tracking error: B: 0~-20dB ± 2 dB A, C, D: 0~-40dB ± 3 dB
- Insulation resistance: DC250V 100M Ω min
- Voltage proof: AC300V 1 minute
- Total rotation travel: 300 $\pm 5^\circ$
- Operating force: 50 ~ 250gf \cdot cm
- Click slip-out force (only center click): +50 ~ 150gf \cdot cm
- Pulling pushing more than: 4kgf \cdot cm min
- Switch ratings: DC16V 1A
- Switch working torque/force: < 400gf \cdot cm
- Switch working angle/stroke: < 50 $^\circ$
- Switch contact resistance: < 50m Ω
- Mechanical endurance: 10000 turns min
- Switch life: 10000 turns min

9mm

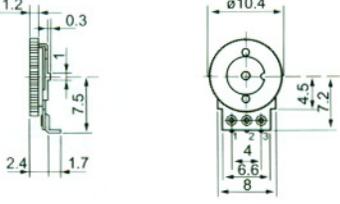
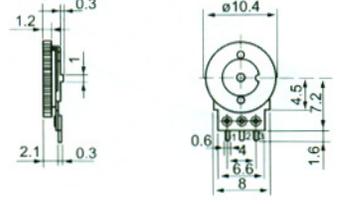
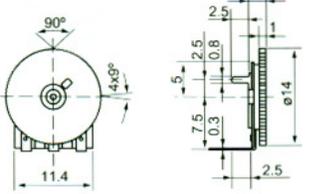
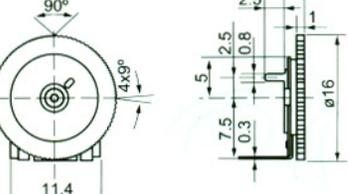
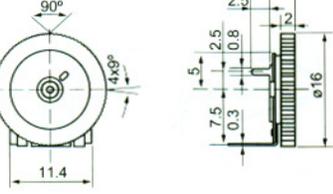
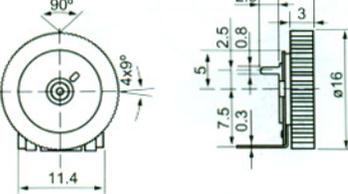
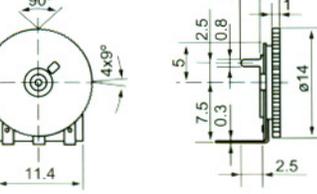
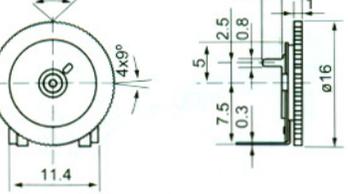
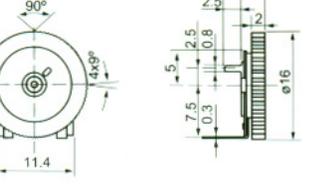
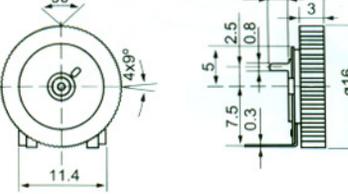
ROTARY POTENTIOMETERS INSULATED SERIES

<p>FC-C-0340 (WH9011-1-F)</p>		<p>FC-C-0341 (WH9011-2-F)</p>	
<p>FC-C-0342 (WH9011-1A-F)</p>		<p>FC-C-0343 (WH9011-1B-F)</p>	
<p>FC-C-0344 (WH9011-2B-F)</p>		<p>FC-C-0345 (WH9011-2A-F)</p>	

Specifications

- Resistance range: 5 ~ 250k Ω
- Tolerance of resistance: $\pm 20\%$
- Rated dissipation: 0.05W
- Rated voltage: 50V AC / DC 20V
- Terminal resistance: 10 Ω max
- Rotational noise: < 100mv
- Insulation resistance: DC250V 100M Ω min
- Voltage proof: AC300V 1 minute
- Total rotation travel: 270 $\pm 5^\circ$
- Operating force: 10 ~ 80gf \cdot cm
- Pulling pushing more than: 3kgf \cdot cm min
- Mechanical endurance: 10000 turns min

THIN POTENTIOMETERS

<p>FC-C-0346 (WH0101-1)</p> 		<p>FC-C-0347 (WH0101-2)</p> 	
<p>FC-C-0348 (WH0142-1(Ø14X1))</p> 		<p>FC-C-0349 (WH0142-1(Ø16X1))</p> 	
<p>FC-C-0350 (WH0142-2(Ø16X2))</p> 		<p>FC-C-0351 (WH0142-3(Ø16X3))</p> 	
<p>FC-C-0352 (WH0141-1(Ø14x1))</p> 		<p>FC-C-0353 (WH0141-1(Ø16x1))</p> 	
<p>FC-C-0354 (WH0141-2(Ø16x2))</p> 		<p>FC-C-0355 (WH0141-3(Ø16x3))</p> 	

Specifications

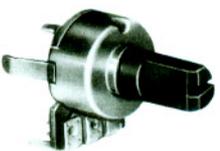
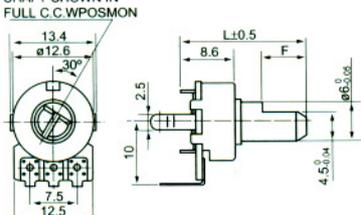
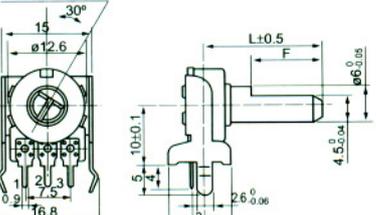
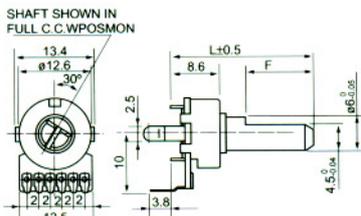
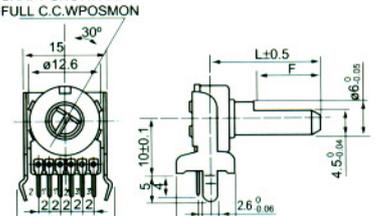
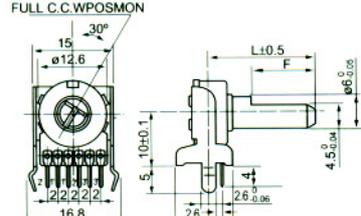
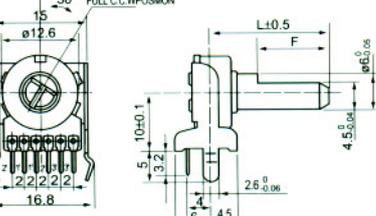
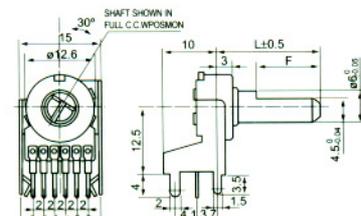
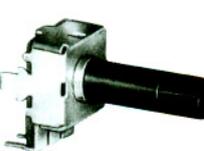
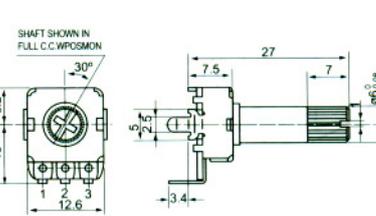
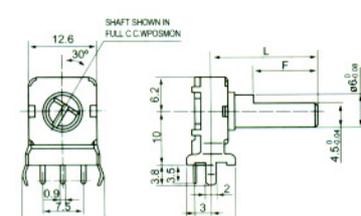
- Resistance range: 5 ~ 250kΩ
- Tolerance of resistance: ±20%
- Rated dissipation: 0.03W
- Rated voltage: 50V AC / DC 20V
- Rotational noise: < 47mv
- Insulation resistance: DC 100V 100MΩ min
- Voltage proof: AC100V 1 minute
- Total rotation travel: 270 ± 5°
- Operating force: 5 ~ 100gf · cm
- Mechanical endurance: 10000 turns min



FULLING & CEIEC

12mm ROTARY POTENTIOMETERS INSULATED SERIES

POTENTIOMETERS

<p>FC-C-0356 (WH12113-F)</p> 	<p>SHAFT SHOWN IN FULL C.C.W.POSMON</p> 	<p>FC-C-0357 (WH12111-F)</p> 	<p>SHAFT SHOWN IN FULL C.C.W.POSMON</p> 
<p>FC-C-0358 (WH0122-1-F)</p> 	<p>SHAFT SHOWN IN FULL C.C.W.POSMON</p> 	<p>FC-C-0359 (WH0122-2-F)</p> 	<p>SHAFT SHOWN IN FULL C.C.W.POSMON</p> 
<p>FC-C-0360 (WH0122-3-F)</p> 	<p>SHAFT SHOWN IN FULL C.C.W.POSMON</p> 	<p>FC-C-0361 (WH0122-4-F)</p> 	<p>SHAFT SHOWN IN FULL C.C.W.POSMON</p> 
<p>FC-C-0362 (WH0122-2S-F)</p> 	<p>SHAFT SHOWN IN FULL C.C.W.POSMON</p> 	<p>FC-C-0363 (WH0123-1-18T)</p> 	<p>SHAFT SHOWN IN FULL C.C.W.POSMON</p> 
<p>FC-C-0364 (WH0123-2-F)</p> 	<p>SHAFT SHOWN IN FULL C.C.W.POSMON</p> 		

Specifications

- Resistance range: 5 ~ 250k Ω
- Tolerance of resistance: $\pm 20\%$
- Rated dissipation: 0.05W
- Rated voltage: 50V AC / DC 20V
- Rotational noise: < 47mv
- Tracking error: B: 0~-20dB ± 2 dB A, C, D: 0~-40dB ± 3 dB
- Insulation resistance: DC250V 100M Ω min
- Voltage proof: AC300V 1 minute
- Total rotation travel: 300 $\pm 5^\circ$
- Operating force: 20 ~ 200gf · cm
- Shaft stop strength: 4kgf · cm min
- Mechanical endurance: 10000 turns min

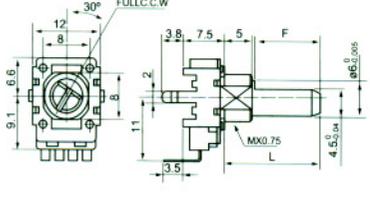
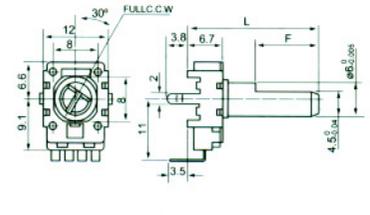
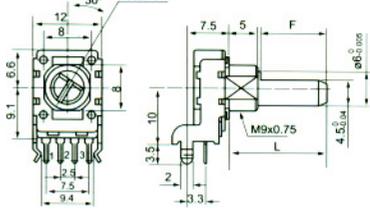
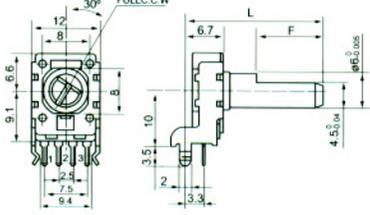
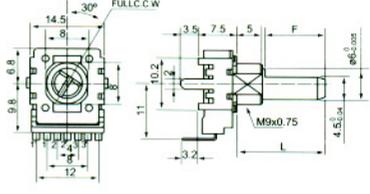
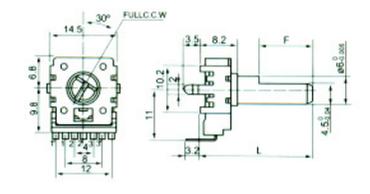
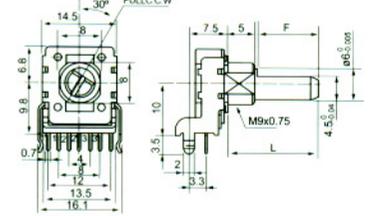
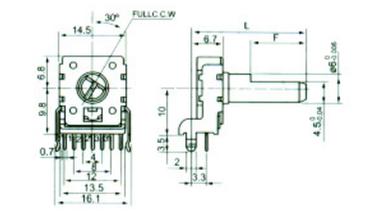
Fax:+86-519-6607378, 6606496

Tel:+86-519-6600389

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E-mail:ceiecz@public.cz.js.cn

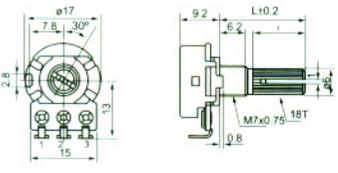
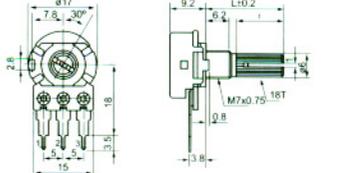
11,14mm ROTARY POTENTIOMETERS ISULATED SERIES

<p>FC-C-0374 (WH111A-1-F)</p> 		<p>FC-C-0375 (WH111-1-F)</p> 	
<p>FC-C-0376 (WH111A-2-F)</p> 		<p>FC-C-0377 (WH111-2-F)</p> 	
<p>FC-C-0378 (WH142A-1-F)</p> 		<p>FC-C-0379 (WH142-1-F)</p> 	
<p>FC-C-0380 (WH142A-2-F)</p> 		<p>FC-C-0381 (WH142-2-F)</p> 	

Specifications

- Resistance range: 5 ~ 500kΩ
- Tolerance of resistance: ±20%
- Rated dissipation: 0.05W
- Rated voltage: 50V AC / DC 20V
- Rotational noise: < 47mv
- Tracking error: 0~40dB ± 3dB
- Insulation resistance: DC250V 100MΩ min
- Voltage proof: AC300V 1 minute
- Total rotation travel: 300 ± 5°
- Operating force: 20 ~ 200gf · cm
- Shaft stop strength: 4kgf · cm min
- Mechanical endurance: 10000 turns min

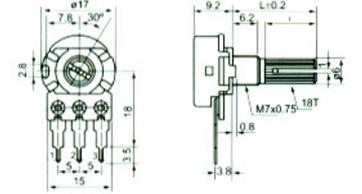
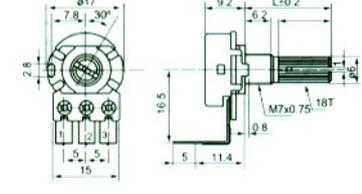
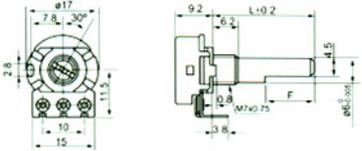
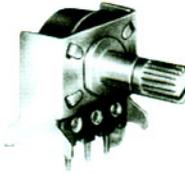
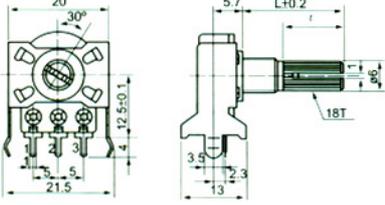
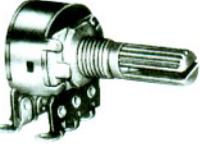
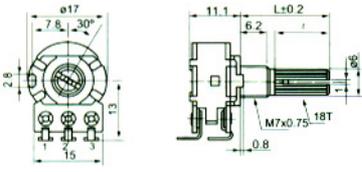
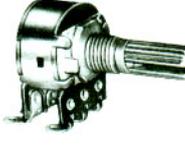
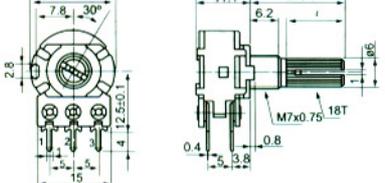
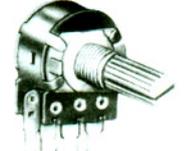
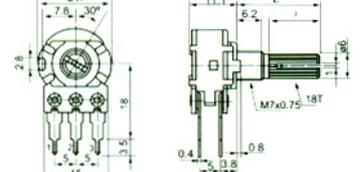
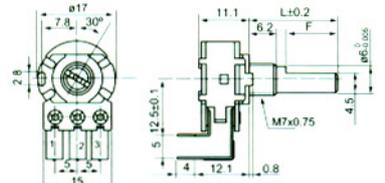
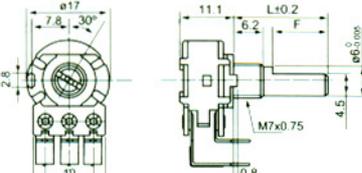
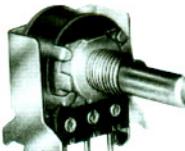
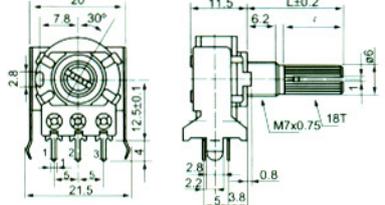
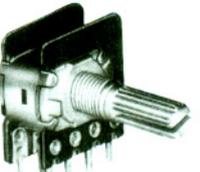
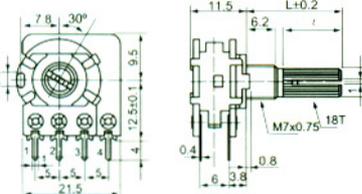
16mm ROTARY POTENTIOMETERS METAL SERIES

<p>FC-C-0382 (WH148-1A-1-18T)</p> 		<p>FC-C-0383 (WH148-1A-2-18T)</p> 	
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16mm

ROTARY POTENTIOMETERS METAL SERIES

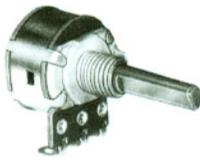
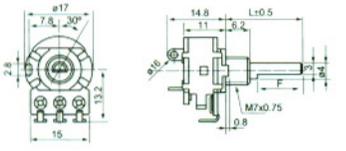
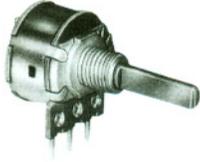
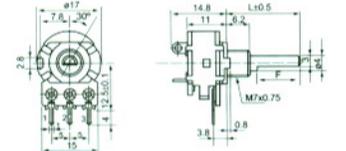
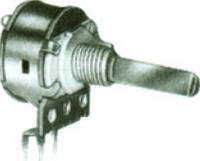
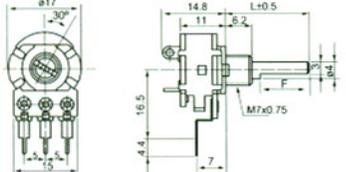
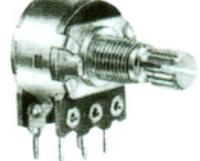
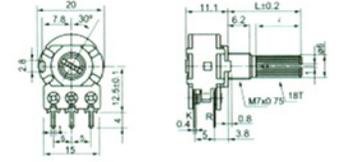
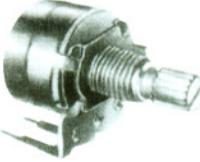
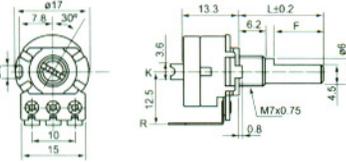
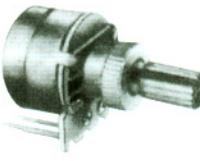
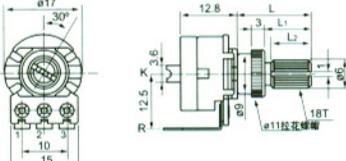
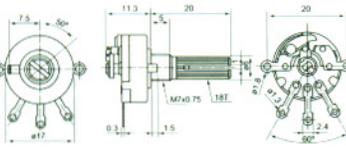
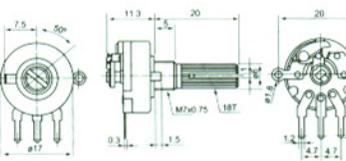
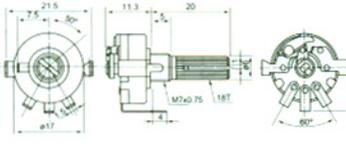
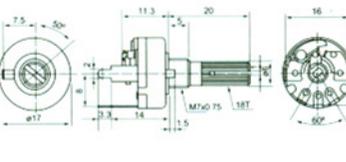
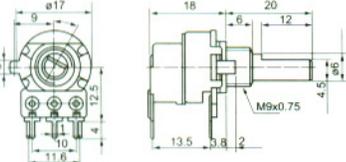
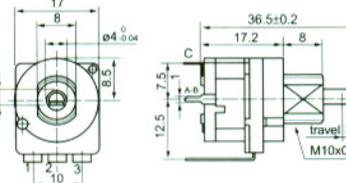
POTENTIOMETERS

<p>FC-C-0384 (WH148-1A-3-18T)</p> 		<p>FC-C-0385 (WH148-1A-4-18T)</p> 	
<p>FC-C-0386 (WH148-1A-5-FR)</p> 		<p>FC-C-0387 (WH148-1A-2MJ-18T)</p> 	
<p>FC-C-0388 (WH148-1B-1-18T)</p> 		<p>FC-C-0389 (WH148-1B-2-18T)</p> 	
<p>FC-C-0390 (WH148-1B-3-18T)</p> 		<p>FC-C-0391 (WH148-1B-4)</p> 	
<p>FC-C-0392 (WH148-1B-5-F)</p> 		<p>FC-C-0393 (WH148-1B-2J-18T)</p> 	
<p>FC-C-0394 (WH148-3B-2-18T)</p> 		<p>Specifications</p> <ul style="list-style-type: none"> • Resistance range: 5 ~ 500kΩ • Tolerance of resistance: ±20% • Rated dissipation: 0.125W 0.06W • Rated voltage: 250V 150V • Rotational noise: < 47mv • Tracking error: 0~40dB ± 3dB • Insulation resistance: DC500V 100MΩ min • Voltage proof: AC500V 1 minute • Total rotation travel: 300 ± 5° • Operating force: 20 ~ 200gf · cm • Shaft stop strength: 6kgf · cm min • Mechanical endurance: 10000 turns min 	



ROTARY POTENTIOMETERS WITH SWITCH

POTENTIOMETERS

<p>FC-C-0395 (WH160AK-1-Ø4F)</p> 		<p>FC-C-0396 (WH160AK-2-Ø4F)</p> 	
<p>FC-C-0397 (WH160AK-4-Ø4F)</p> 		<p>FC-C-0398 (WH148-1AK-2-18T)</p> 	
<p>FC-C-0399 (WH148-K2-4)</p> 		<p>FC-C-0400 (WH148-K4-18T)</p> 	
<p>FC-C-0401 (RV17-K2)</p> 		<p>FC-C-0402 (RV17-K3)</p> 	
<p>FC-C-0403 (RV17-K1)</p> 		<p>FC-C-0404 (RV17-K4)</p> 	
<p>FC-C-0405 (WH168(B39S1))</p> 		<p>FC-C-406 (WH116AK-1)</p> 	

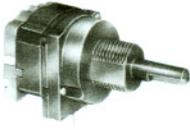
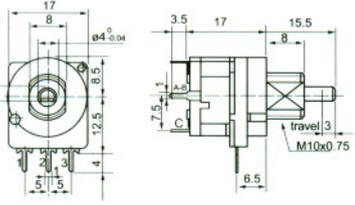
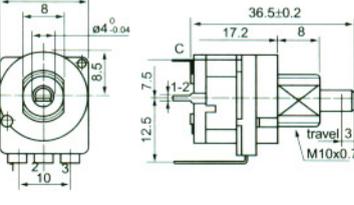
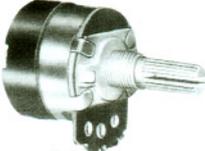
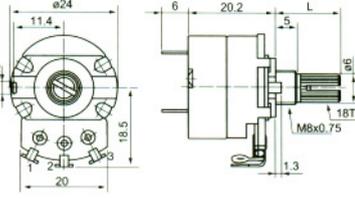
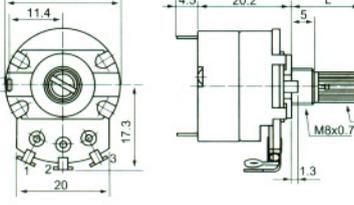
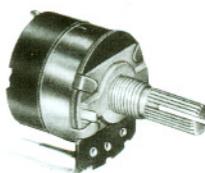
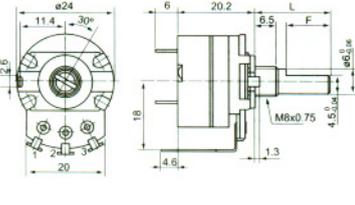
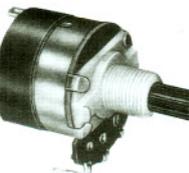
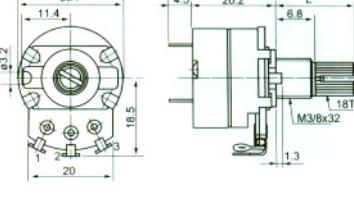
Fax: +86-519-6607378, 6606496

Tel: +86-519-6600389

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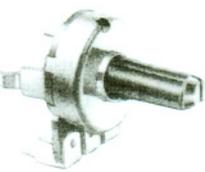
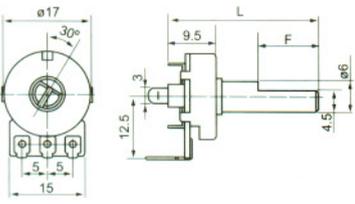
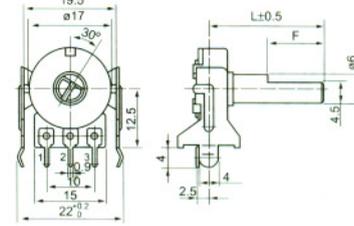
ROTARY POTENTIOMETERS WITH SWITCH

<p>FC-C-0407 (WH116AK-2)</p> 		<p>FC-C-0408 (WH116AK-4-R)</p> 	
<p>FC-C-0409 (WH138-1A-1-18T)</p> 		<p>FC-C-0410 (WH138-1B-3-18T)</p> 	
<p>FC-C-0411 (WH138-1A-4-F)</p> 		<p>FC-C-0412 (WH138-2A-1-18T)</p> 	

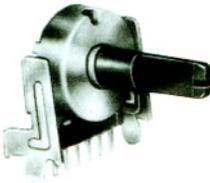
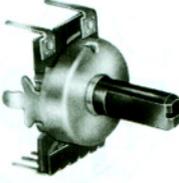
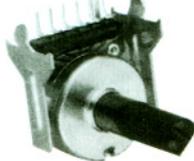
Specifications

Items	Guideline	Type	WH148-1AK	WH160AK	WH148-K	RV17	WH168	WH116AK	WH138
Total rotation angle			300°	300°	300°	260°	300°	270°	300°
Operating force			20 ~ 200gf · cm	20 ~ 200gf · cm	20 ~ 200gf · cm	20 ~ 200gf · cm	20 ~ 200gf · cm	20 ~ 200gf · cm	20 ~ 200gf · cm
Shaft stop strength			6Kgf · cm/min	3Kgf · cm/min	6Kgf · cm/min	3Kgf · cm/min	5Kgf · cm/min	3Kgf · cm/min	6Kgf · cm/min
Switch working angle/stroke			35± 5°	35± 5°	35± 5°	30± 10°	40± 10°	3mm	50± 10°
Switch working torque/force			50 ~ 300gf · cm	50 ~ 300gf · cm	50 ~ 400gf · cm	50 ~ 300gf · cm	50 ~ 300gf · cm	200g max	150 ~ 450gf · cm
Rated dissipation			0.125W 0.06W	0.125W 0.06W	0.125W 0.06W	0.125W 0.06W	0.125W 0.06W	0.125W 0.06W	0.2W 0.1W
Rated voltage			200V 150V	200V 150V	200V 150V	200V 150V	200V 150V	200V 150V	500V 250V
Insulation resistance			DC500V 100MΩ	DC500V 100MΩ	DC500V 100MΩ	DC500V 50MΩ	DC500V 100MΩ	DC500V 100MΩ	DC500V 100MΩ
Voltage proof			AC500V, 1minute	AC500V, 1minute	AC500V, 1minute	AC500V, 1minute	AC500V, 1minute	AC1000V, 1minute	AC500V, 1minute
Switch contact resistance			less than 20mΩ	less than 20mΩ	less than 20mΩ	less than 20mΩ	less than 20mΩ	less than 20mΩ	less than 20mΩ
Switch ratings			16VDC 3A	12VDC 1A	16VDC 3A	12VDC 1A	125VDC 3A	250VDC 2A	125VDC 1A
Mechanical endurance			10000 cycles	10000 cycles	10000 cycles	10000 cycles	10000 cycles	10000 cycles	10000 cycles
Switch life			10000 times	10000 times	10000 times	10000 times	10000 times	25000 times	10000 times

17mm ROTARY POTENTIOMETERS INSULATED SERIES

<p>FC-C-0413 (WH0171-1-F)</p> 		<p>FC-C-0414 (WH0171-2J-F)</p> 	
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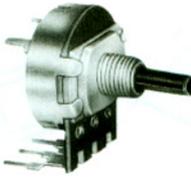
17mm ROTARY POTENTIOMETERS INSULATED SERIES

<p>FC-C-0415 (WH0172-1-F)</p> 		<p>FC-C-0416 (WH0172-2SJ-F)</p> 	
<p>FC-C-0417 (WH0172-2AJ-F)</p> 		<p>FC-C-0418 (WH0172Z-1-F)</p> 	
<p>FC-C-0419 (WH0172-2B-1-F)</p> 		<p>FC-C-0420 (WH0172-3B-2J-F)</p> 	

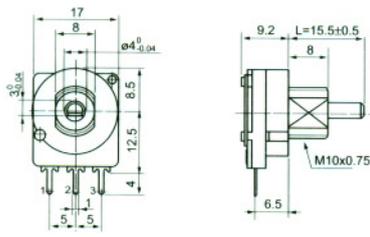
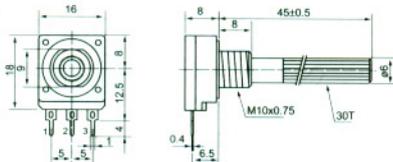
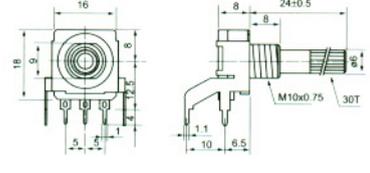
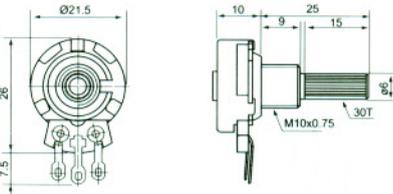
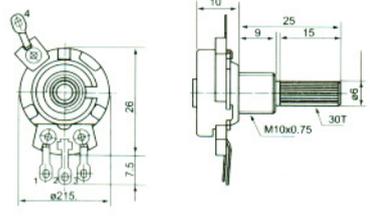
Specifications

- Resistance range: 5 ~ 250k Ω
- Tolerance of resistance: $\pm 20\%$
- Rated dissipation: 0.1W/0.05W
- Rated voltage: 50V AC / DC 20V
- Rotational noise: < 47mv
- Tracking error: B: 0~-20dB ± 2 dB A, C, D: 0~-40dB ± 3 dB
- Total rotation travel: 300 $\pm 5^\circ$
- Operating force: 20 ~ 200gf · cm
- Shaft stop strength: 4Kgf · cm min
- Insulation resistance: DC250V 100M Ω min
- Voltage proof: AC300V 1 minute
- Mechanical endurance: 10000 turns min

ROTARY POTENTIOMETERS

<p>FC-C-0421 (WH0241-18T)</p> 		<p>FC-C-0422 (WH220-1)</p> 	
<p>FC-C-0423 (WH220-2)</p> 		<p>FC-C-0424 (WH020)</p> 	

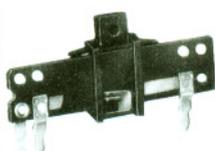
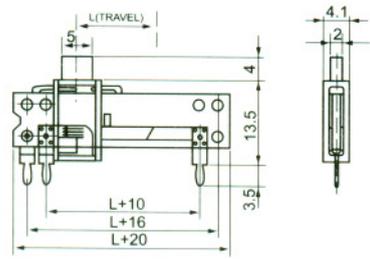
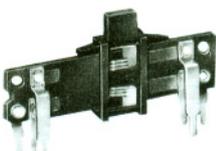
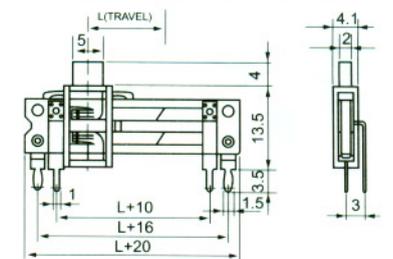
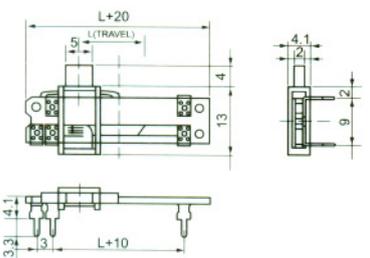
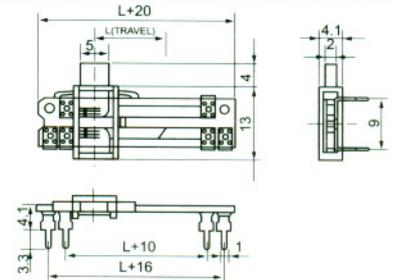
ROTARY POTENTIOMETERS

<p>FC-C-0425 (WH116-2 L15.5ø4-F)</p> 		<p>FC-C-0426 (WH0162 L45-30T)</p> 	
<p>FC-C-0427 (WH0162-2 L20-30T)</p> 		<p>FC-C-0428 (WH021-1 L25-30T)</p> 	
<p>FC-C-0429 (WH021-1Z L25-30T)</p> 			

Specifications

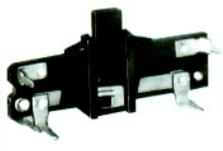
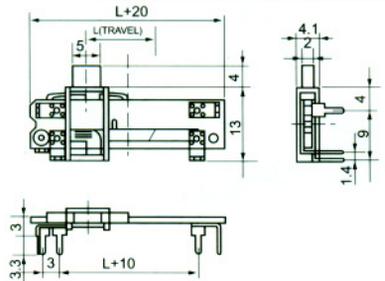
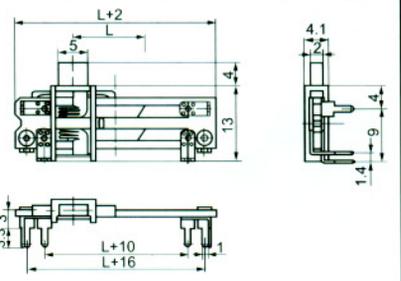
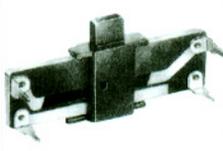
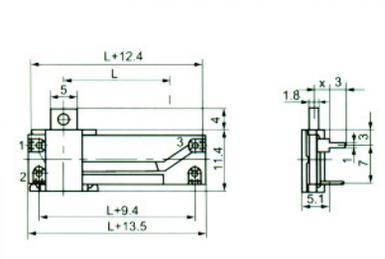
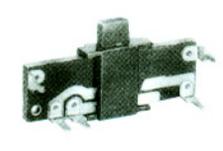
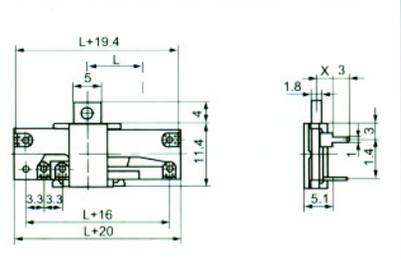
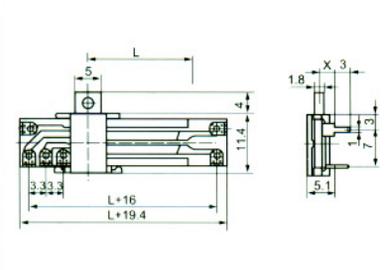
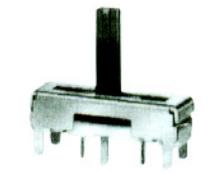
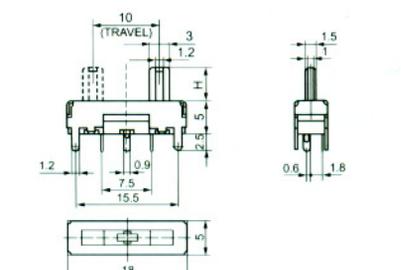
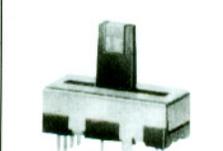
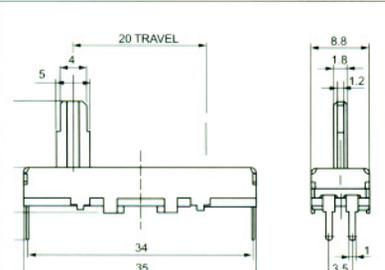
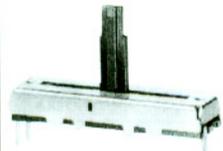
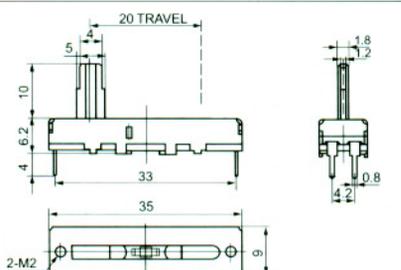
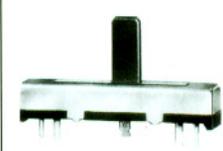
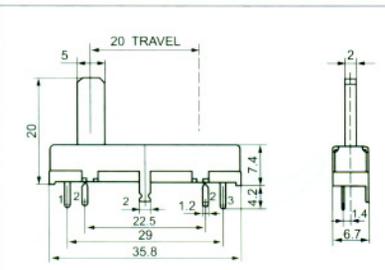
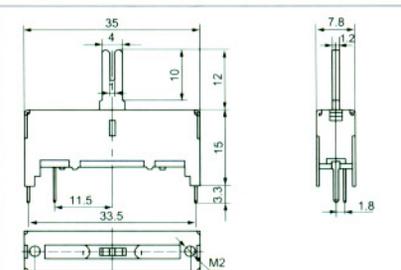
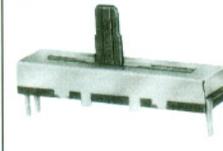
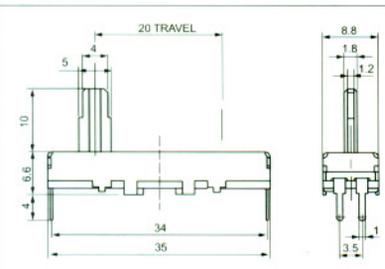
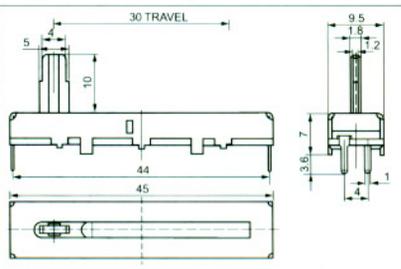
	WH0241 WH220	WH020	WH0162	WH021
Total rotation angle	WH0241 WH220	WH020	WH0162	WH021
Rotation angle	300°	300°	300°	300°
Operating force	20 ~ 200gf · cm	20 ~ 200gf · cm	20 ~ 200gf · cm	20 ~ 200gf · cm
Rated wattage	0.2W 0.1W	0.125W 0.06W	0.125W 0.06W	0.125W 0.06W
Voltage proof	500V 250V	200V 150V	200V 150V	200V 150V
Rotation life	10000 cycles	10000 cycles	10000 cycles	10000 cycles

SLIDE POTENTIOMETERS

<p>FC-C-0430 (WH□□ 1)</p> 		<p>FC-C-0431 (WH□□ 2)</p> 	
<p>FC-C-0432 (WH□□ 1-1B)</p> 		<p>FC-C-0433 (WH□□ 2-1B)</p> 	

SLIDE POTENTIOMETERS

POTENTIOMETERS

<p>FC-C-0434 (WH□□ 1-1A) L</p> 		<p>FC-C-0435 (WH□□ 2-1A) L</p> 	
<p>FC-C-0436 (WH□□ 5) L</p> 		<p>FC-C-0437 (WH□□ 9A) L</p> 	
<p>FC-C-0438 (WH□□ 9B) L</p> 		<p>FC-C-0439 (WH1101)</p> 	
<p>FC-C-0440 (WH1002(LED))</p> 		<p>FC-C-0441 (WH20-S)</p> 	
<p>FC-C-0442 (WH2011P-F)</p> 		<p>FC-C-0443 (WH2006-C)</p> 	
<p>FC-C-0444 (WH29-S)</p> 		<p>FC-C-0445 (WH39-S)</p> 	

Fax: +86-519-6607378, 6606496

Tel: +86-519-6600389

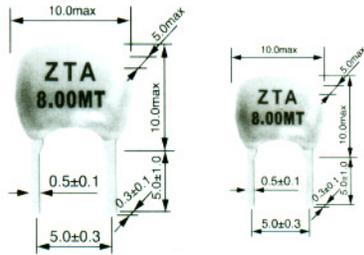
Http://www.ceiec.cz

E-mail: ceiec@public.cz.js.cn

ZTA Series of Ceramic Resonator 1.80-50.00MHz

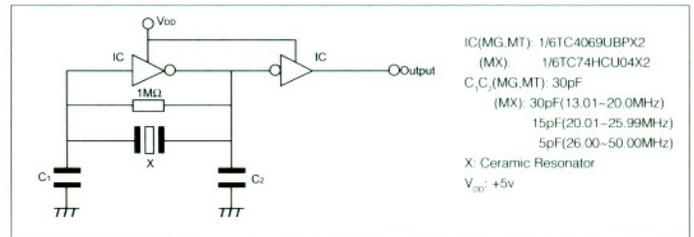
TECHNICAL CHARACTERISTICS

Part Number	Frequency Range (MHz)	Frequency Accuracy (25°C)(%)	Stability in Temperature (-20~+80°C)(%)	Operating Temperature(°C)	Aging For Ten Years(%)
ZTA □□□ MG	1.80-6.00	±0.5	±0.3	-20~+80	±0.3
ZTA □□□ MT	6.01-13.00	±0.5	±0.3	-20~+80	±0.3
ZTA □□□ MX	13.01-50.00	±0.5	±0.3	-20~+80	±0.3



*MT: 10.0 max;
 MX: 13.01 ~ 23.99MHz, 10.0 max
 24.0 ~ 31.99MHz, 7.5 max
 32.00 ~ 50.00MHz, 6.5max

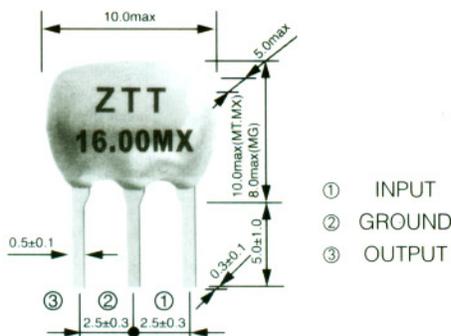
TEST CIRCUIT FOR MOS IC



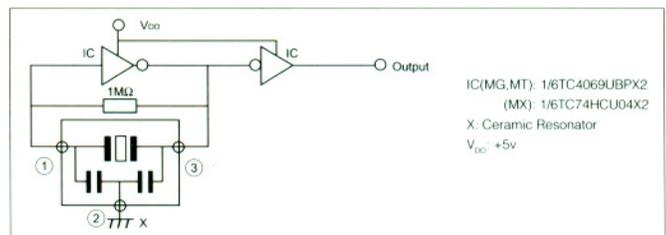
ZTT Series of Ceramic Resonator With Built-in Capacitor 1.80-50.00MHz

TECHNICAL CHARACTERISTICS

Part Number	Frequency Accuracy (25°C)(%)	Stability in Temperature (-20~+80°C)(%)	Aging For Ten Years(%)
ZTT1.80-6.0MG	±0.5	±0.3	±0.3
ZTT6.01-13.00MT	±0.5	±0.3	±0.3
ZTT13.01-50.00MX	±0.5	±0.3	±0.3



TEST CIRCUIT FOR MOS IC



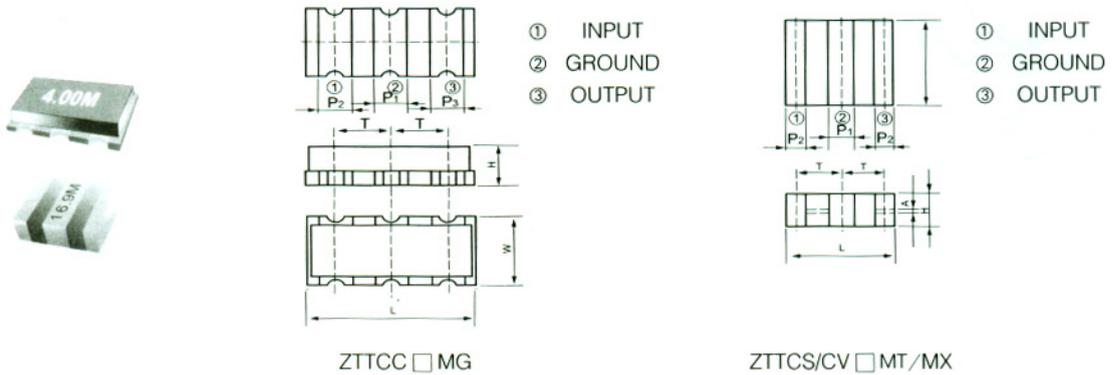
ZTACC/CS/CV □ MG/MT/MX
 ZTTCC/CS/CV □ MG/MT/MX

Series of Ceramic Resonator(Chip type) 2.00-50.00MHz

TECHNICAL CHARACTERISTICS

Part Number	Frequency Range (MHz)	Frequency Accuracy (%)	Stability in Temperature (-20~+80°C)(%)	Aging For Ten Years(%)
ZTACC □ MG ZTTCC □ MG	2.00-8.00	±0.5	±0.3	±0.3
ZTACS/CV □ MT ZTTCS/CV □ MT	7.00-13.00	±0.5	±0.4	±0.3
ZTACS □ MX ZTTCS □ MX	13.01-50.00	±0.5	±0.3	±0.3
ZTACV □ MX ZTTCV □ MX	16.00-50.00	±0.5	±0.3	±0.3

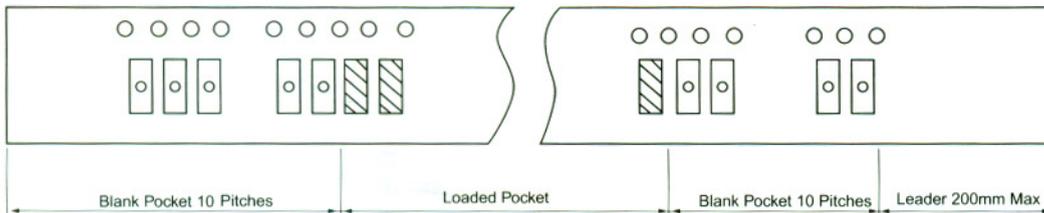
FIGURE AND DIMENSIONS



Code Part Number	Dimensions(mm)					
	L	W	H	P ₁	P ₂	T
ZTA/ZTTCC □ MG	7.4±0.2	3.4±0.2	1.8±0.2	1.2±0.2	1.2±0.2	2.5±0.2
ZTA/ZTTCS □ MT/MX	4.7±0.2	4.1±0.2	(1.2+A)±0.2	1.0±0.2	0.8±0.2	1.95±0.2
ZTA/ZTTCV □ MT/MX	3.7±0.2	3.1±0.2	(1.0+A)±0.2	0.9±0.2	0.7±0.2	1.5±0.2

Note: A stands for thickness of the ceramic element, which varies with the frequency. The range of the thickness is 0.1 to 0.7mm.
 No middle terminal for ZTA series

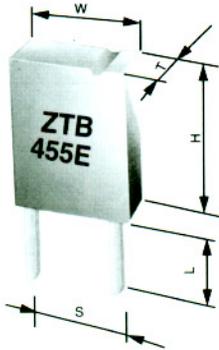
PACKING METHOD



ZTB Series of Ceramic Resonator 190-1250KHz

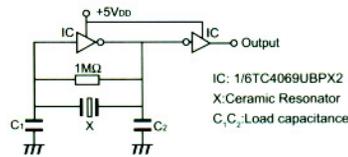
TECHNICAL CHARACTERISTICS

Part Number	Frequency Accuracy	Resonant Impedance (Ω)	Stability Temperature (-20~+80°C)(%)	Aging For Ten Years(%)	Load Capacitance (pF)	
					C ₁	C ₂
ZTB190-249D	±1KHz	< 20	±0.3	±0.3	330	470
ZTB250-374D	±1KHz	< 20	±0.3	±0.3	220	470
ZTB375-429P	±2KHz	< 20	±0.3	±0.3	120	470
ZTB430-509E	±2KHz	< 20	±0.3	±0.3	100	100
ZTB510-699P	±2KHz	< 30	±0.3	±0.3	100	100
ZTB700-999J	±0.5%	< 70	±0.3	±0.3	100	100
ZTB1000-1250J	±0.5%	< 100	±0.3	±0.3	100	100

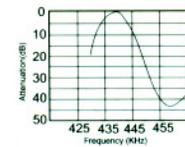


Frequency Range(KHz)	Width(mm)	Thickness (mm)	Height(mm)	Lead Space (mm)	Lead Length (mm)
190-249	13.5	3.8	14.7	10.0	8.0
250-374	11.0	3.8	12.2	7.7	7.0
375-400	7.9	3.6	9.3	5.0	7.7
401-699	7.0	3.5	9.0	5.0	4.0(6.0)
700-1250	5.2	2.8	6.8	2.5	3.5(5.0)
1000J	5.1	2.3	6.3	2.5	4.0

TEST CIRCUIT



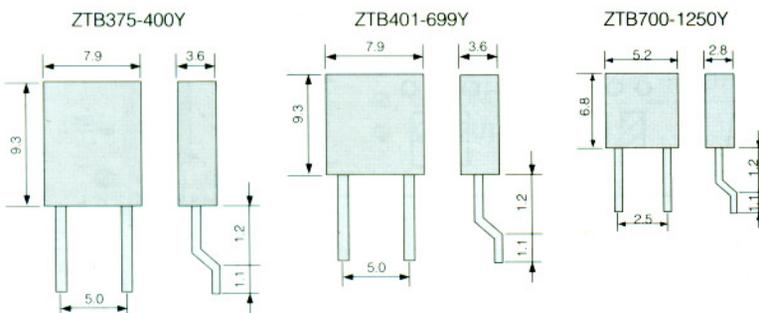
CHARACTERISTICS



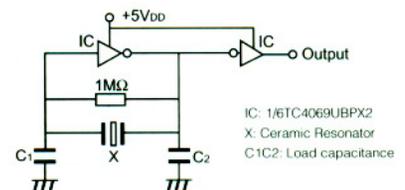
ZTB □ Y Series Surface Mountable Ceramic Resonator 375-1250KHz

TECHNICAL CHARACTERISTICS

Part Number	Frequency Accuracy(%)	Resonant Impedance (Ω)	Stability in Temperature (-20~+80°C)(%)	Aging For Ten Years(%)	Load Capacitance(pF)	
					C ₁	C ₂
ZTB375-429Y	±0.5	< 20	±0.3	±0.3	120	470
ZTB430-509Y	±0.5	< 20	±0.3	±0.3	100	100
ZTB510-699Y	±0.5	< 30	±0.3	±0.3	100	100
ZTB700-900Y	±0.5	< 50	±0.3	±0.3	100	100
ZTB901-1000Y	±0.5	< 70	±0.3	±0.3	100	100
ZTB1001-1250Y	±0.5	< 100	±0.3	±0.3	100	100



TEST CIRCUIT



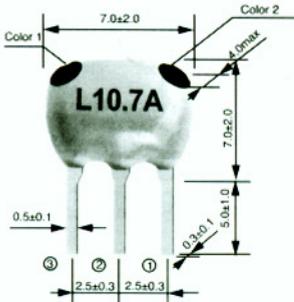
LT10.7M Series of Ceramic Filter for FM Receiver 10.7MHz

TECHNICAL CHARACTERISTICS

Part Number	3dB Band Width (KHz)	20dB Band Width (KHz)max	Insertion Loss (dB)max	Spurious Attenuation (9-12MHz)(dB)min
LT10.7MA5	280±50	650	6	30
LT10.7MS2	230±50	600	6	40
LT10.7MS3	180±40	520	7	40
LT10.7MJ	150±40	400	10	38

* Input/Output impedance: 330

10.7M Series of Ceramic Filter 10.7MHz

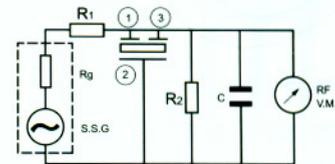


- ① Input
- ② Ground
- ③ Output
- Color 1 :A5. S2. JA10
- Color 2 :S3. J. HY

STANDARD RULE

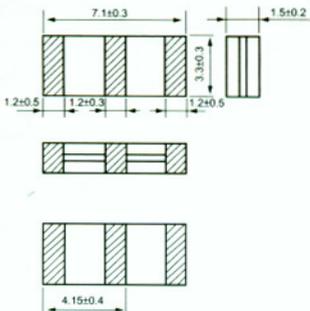
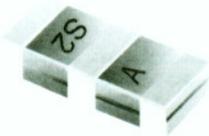
Center Frequency	Color
D: 10.640MHz±30KHz	Black
B: 10.670MHz±30KHz	blue
A: 10.700MHz±30KHz	Red
C: 10.730MHz±30KHz	Orange
C: 10.760MHz±30KHz	White

TEST CIRCUIT



Rg+R1=330Ω
C=10pF
(Including stray capacitance and input capacitance of RF voltmeter)

Chip Type LTCA/CV10.7M Series of Ceramic Filter 10.7MHz



Technical Characteristics

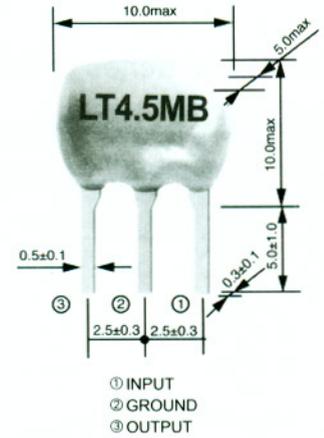
Part Number	3dB Band Width (KHz)	20dB Band Width (KHz)max	Insertion Loss (dB)max	Spurious Attenuation (9-12MHz)(dB)min
LTCA10.7MA5	280±50	650	6.0	30
LTCA10.7MS2	230±50	600	6.0	30
LTCV10.7MA5	280±50	590	3.0±2.0	35
LTCV10.7MS2	230±50	510	3.5±2.0	35
LTCV10.7MS3	180±40	470	4.0±2.0	35

• Input/Output Impedance:330Ω

LT □ MB Series of Ceramic Filter For TV/VCR Stage 4.5-6.5MHz

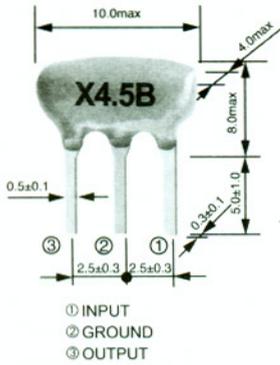
TECHNICAL CHARACTERISTICS

Part Number	Nominal Center Frequency (fn)(MHz)	3dB Band Width (KHz)min	20dB Band Width (KHz)max	Insertion Loss (dB)max	Spurious Attenuation (dB)min	Input/Output Impedance(Ω)
LT4.5MB	4.500	fn±60	530	6.0	20(4.5 ^{+0.8} _{-1.0} 1MHz)	1000
LT5.5MB	5.500	fn±75	550	6.0	25(5.5±1MHz)	600
LT6.0MB	6.000	fn±80	600	6.0	25(6.0±1MHz)	470
LT6.5MB	6.500	fn±80	630	6.0	25(6.5+1MHz) 30(6.5-1MHz)	470



XT □ MB Series of Ceramic Trap For TV/VCR Stage 4.5-6.5MHz

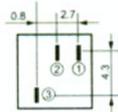
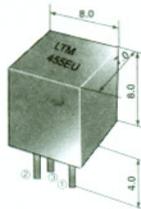
TECHNICAL CHARACTERISTICS



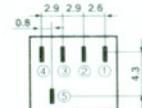
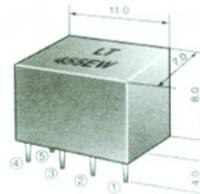
Part Number	Center Frequency(fn1) (MHz)	Attenuation(at fn1)(dB)min	30dB AttenuationBW (fn1)(KHz)min
XT3.58MB	3.580	25	40(25dB Att. BW)
XT4.43MB	4.430	30	40
XT4.5MB	4.500	35	50
XT5.5MB	5.500	35	70
XT5.74MB	5.742	35	70
XT6.0MB	6.000	35	70
XT6.5MB	6.500	35	70

* The level at 1MHz shall be made for a reference (0dB)

LT455/450 □ U/W Series of Ceramic Filter For Communication 455/450KHz



① INPUT
② GROUND
③ OUTPUT

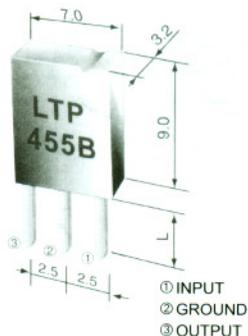


① INPUT
②③④ GROUND
⑤ OUTPUT

TECHNICAL CHARACTERISTICS

Part Number	Center Frequency(KHz)	Insertion Loss (dB) max	Pass Band Ripple (dB) max	6dB Band Width (KHz) min	40dB Band width (KHz) max (LT455 □ U)	50dB Band width (KHz) max (LT455 □ W)	Stop Band Attenuation for ±100KHz(dB) min		Input/Output Impedance(Ω)	
							LT455 □ U	LT455 □ W		
LT455BU	LT455BW	455±2.0	4	2	±15	±30	±30	28	40	1500
LT455CU	LT455CW	455±2.0	4	2	±12.5	±24	±24	28	40	1500
LT455DU	LT455DW	455±1.5	4	2	±10	±20	±20	28	40	1500
LT455EU	LT455EW	455±1.5	6	2	±7.5	±15	±15	28	40	1500
LT455FU	LT455FW	455±1.5	6	2	±6	±12.5	±12.5	28	40	2000
LT455GU	LT455GW	455±1.5	6	2	±4.5	±10	±10	28	40	2000
LT455HU	LT455HW	455±1.0	6	2	±3	±9	±9	28	40	2000
LT455IU	LT455IW	455±1.0	6	2	±2	±7.5	±7.5	28	40	2000
LT455HTU	LT455HTW	455±1.0	6	2	±3	±9	±9	35	60	2000

LTP Series of Ceramic Filter For AM 450-470kHz

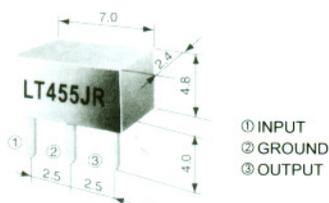


TECHNICAL CHARACTERISTICS

Part Number	3dB Band Width (KHz)	Selectivity (dB) min		Insertion Loss (dB) max	Composition	Lead Length L(mm)	
		-9KHz off	+9KHz off			L ₁	L ₂
LTP455A	9.5±3	5.0	3.0	5.0	one element	3.6	5.0
LTP455B	9.5±3	5.0	3.0	5.0	one element		
LTP455BY	7±2	6.0	5.0	5.0	with IFT		
LTP455BY1	4.5±1.5	9.0	8.0	5.0			

- Center Frequency (fo) is available in a range of 450 ~ 470kHz
- The nominal frequency tolerance is ±2KHz

Miniature LT Series of Ceramic Filter 450-470kHz

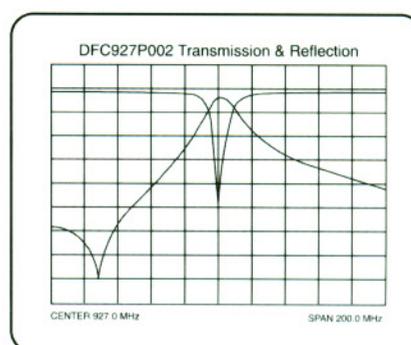
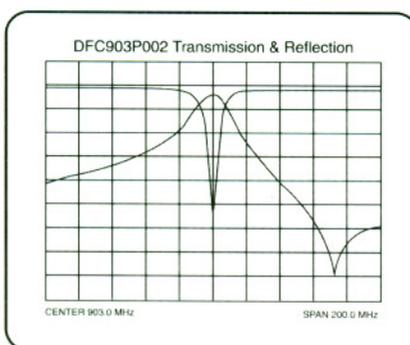
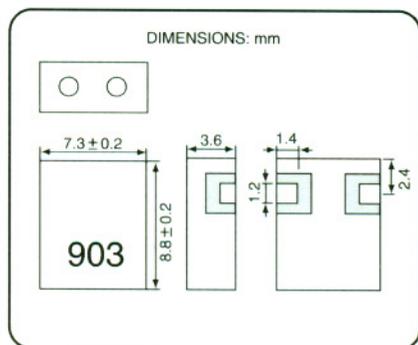


TECHNICAL CHARACTERISTICS

Part Number	3dB Band Width(KHz)	Selectivity±9KHz off (dB)	Insertion Loss (dB)	Composition
LT455JR	5.5±1.5	> 17	< 6	2 elements

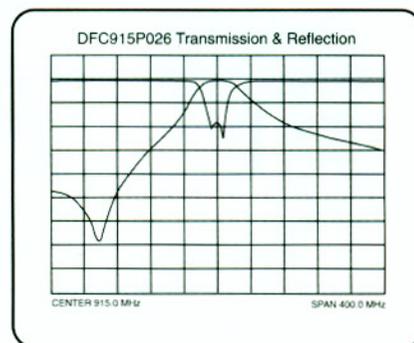
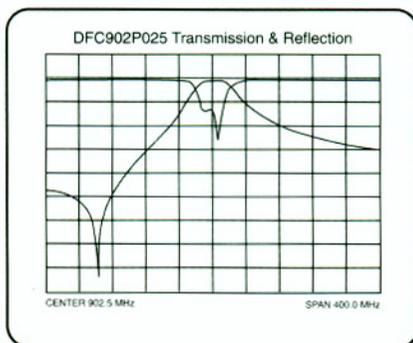
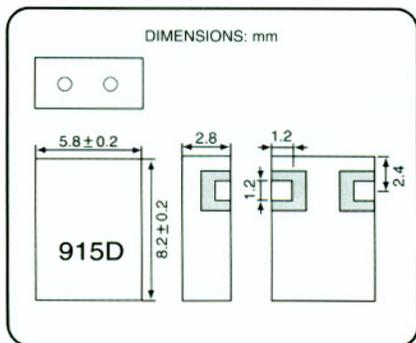
- Center Frequency (fo) is available in a range of 450~470 KHz
- The nominal frequency tolerance is ±2KHz

886/931/866/963/903/927/817/906/914/959/2403/2475 MHz Dielectric Filters for Cordless Telephone



Part Number	Center Frequency(MHz)	Band Width (MHz)	Insertion Loss (dB)	Ripple (dB)	VSWR (in BW)	Attenuation (dB)
DFC886P002	886.0	2	< 3.0	< 0.5	< 2.0	> 24 (fo-44M) > 30 (fo+44M)
DFC931P002	931.0	2	< 3.0	< 0.5	< 2.0	> 30 (fo-44M) > 24 (fo+44M)
DFC866P004	866.0	4	< 3.0	< 0.5	< 2.0	> 38 (fo-150M) > 50 (fo+150M)
DFC963P002	963.0	2	< 3.0	< 0.5	< 2.0	> 30 (fo-44M) > 24 (fo+44M)
DFC903P002	903.0	2	< 4.0	< 0.5	< 2.0	> 25 (927M)
DFC927P002	927.0	2	< 4.0	< 0.5	< 2.0	> 25 (903M)
DFC817P002	817.0	2	< 4.0	< 0.5	< 2.0	> 20 (fo-24M) > 23 (fo+24M)
DFC906P006	906.0	6	< 4.0	< 0.5	< 2.0	> 25 (fo-50M) > 30 (fo+50M)
DFC914P001	914.5	1	< 3.5	< 0.5	< 2.0	> 24 (fo-44M) > 30 (fo+44M)
DFC959P001	959.5	1	< 3.5	< 0.5	< 2.0	> 30 (fo-44M) > 24 (fo+44M)
DFC2403P006	2403.3	6	< 3.5	< 0.5	< 2.0	> 32 (2475M)
DFC2475P006	2475.3	6	< 3.5	< 0.5	< 2.0	> 33 (2403M)

881/902/914/915/947MHz Dielectric Filters for Mobile Communication

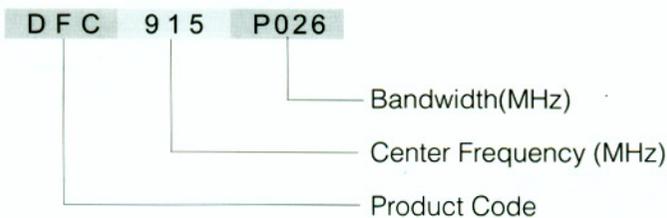


Part Number	Center Frequency(MHz)	Band Width (MHz)	Insertion Loss (dB)	Ripple (dB)	VSWR (in BW)	Attenuation (dB)
DFC881P025	881.5	25	< 2.6	< 1.2	< 2.3	> 9 (824-849M) > 6.5 (914-939M) > 17 (959-984M)
DFC914P021	914.5	21	< 2.0	< 1.0	< 2.3	> 40 (451-464M) > 15.5 (982-1008M) > 33 (1353-1392M) > 40 (1804-1856M)
DFC915P026	915.0	26	< 2.5	< 1.2	< 2.3	> 27 (fo-77.5M) > 17 (fo+77.5M)
DFC923P014	923.0	14	< 2.5	< 1.0	< 2.3	> 23 (fo-77.5M) > 17 (fo+77.5M)
DFC902P025	902.5	25	< 2.6	< 1.2	< 2.3	> 27 (fo-77.5M) > 17 (fo+77.5M)
DFC947P025	947.5	25	< 2.6	< 1.2	< 2.3	> 27 (fo-77.5M) > 17 (fo+77.5M)

Packaging Method and Quantity

DFC □□□□ P □□□□	Tube Package	100pcs.
	Tape Package	1000pcs.

Part Numbering of Filters

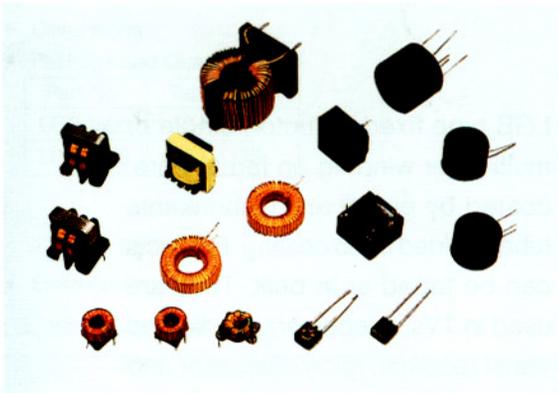


E-mail:ceiecz@public.cz.js.cn

Http://www.ceiecz.com

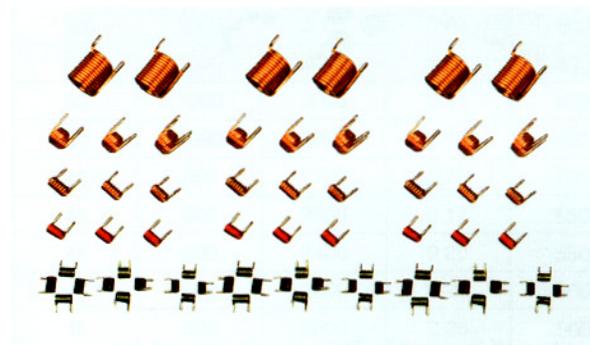
Tel:+86-519-6600389

Fax:+86-519-6607378 , 6606496



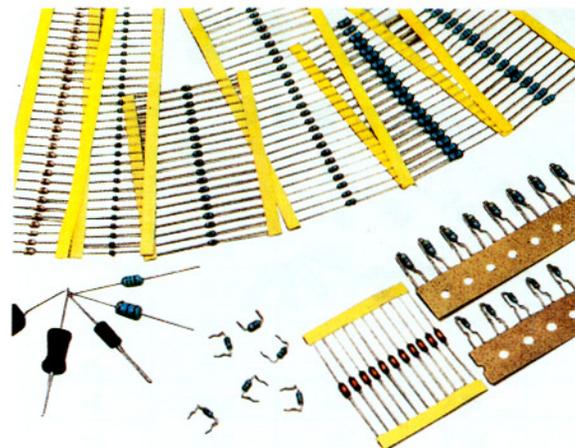
Toroidal coil is used in household appliance, telecommunication for filter, choke, anti interference and etc..

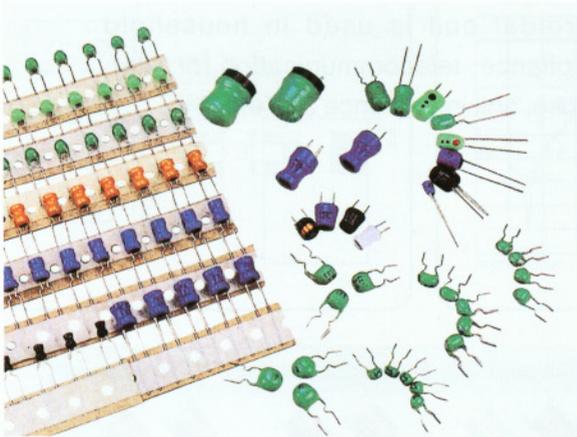
Air wound coil is used in TVs for oscillating .It is easy for adjusting and with high accuracy L, less stray capacitance, high SRF, and less temp. coefficient.



LGC type chip inductor, winding on ceramic of ferrite core without leads. It is suitable for surface mounting with accurate size, large current, high reliability, it is widely used in telecamera, telecommunication and etc..

LGA type fixed inductor, single or multi layer winding on ferrite core, coating by epoxy resin or shrinkable tube, Products can be taped or in bulk. They are used in TVs, telecamera, audio and visual recorder, microprocessor and other electronic equipment for resonance, oscillating coupling, delay, filter, trap, choke and etc..





LGB type fixed inductor, single or multi layer winding on ferrite core, coated by epoxy resin, shrinkable tube, molded or no coating. Products can be taped or in bulk, They are used in TVs, telecamera, audio and visual recorder, microprocessor and other electronic equipment for choke, oscillating, filter and etc.

Linearity coil is used in TVs, monitors and displays for compensation and adjusting linearity with single structure, steady property and without adjusting.

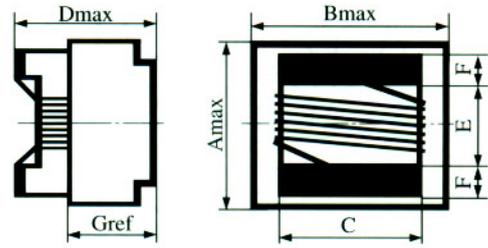


Ferrite core made by Ni-Zn and Mn-Zn, materials with drum core, rod core, toroidal core, and bead core. They are used in fixed inductors, adjustable coils and EMI components.

CHIP INDUCTORS FOR SURFACE MOUNTING

- Dimensions
- Package and Quantity

Part No.	Taping/reel
LGC0805	3 K PCS
LGC1008	2 K PCS

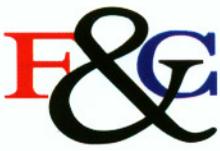


No.	Unit	Amax	Bmax	C	Dmax	E	F	Gref
LGC0805	mm	2.35	1.85	1.27	1.56	1.00	0.50	0.80
LGC1008	mm	2.84	2.79	2.00	2.10	1.50	0.50	1.18

- Electrical Properties

LGC0805(2012) Type

Part No.	L (nH)	TOL	FL (MHz)	Q (min)	F ₀ (MHz)	SRF(min) (MHz)	Rdc(max) (Ω)	I _{dc} (max) (mA)
LGC0805 C-2N2	2.2	M:±20%	250	30	1000	3000	0.08	600
LGC0805 C-5N6	5.6		200	50	1000	3000	0.10	600
LGC0805 C-6N8	6.8	M:±20%	200	50	1000	3000	0.11	600
LGC0805 C-010	10	K:±10%	200	50	1000	3000	0.12	600
LGC0805 C-012	12	M:±20%	200	45	500	2750	0.15	600
LGC0805 C-015	15	K:±10%	200	45	500	2500	0.17	550
LGC0805 C-018	18	J:±5%	200	45	500	2400	0.20	550
LGC0805 C-022	22	K:±10% J:±5%	200	45	500	2200	0.22	500
LGC0805 C-027	27		200	45	500	2000	0.25	500
LGC0805 C-033	33		200	40	500	1800	0.27	500
LGC0805 C-039	39		200	40	500	1600	0.29	450
LGC0805 C-047	47		200	40	250	1400	0.31	400
LGC0805 C-056	56		150	40	250	1300	0.34	400
LGC0805 C-068	68		150	40	250	1200	0.38	350
LGC0805 C-082	82		150	40	250	1020	0.42	350
LGC0805 C-R10	100		150	40	250	950	0.56	280
LGC0805 C-R12	120		100	35	150	840	0.64	250
LGC0805 C-R15	150		100	35	150	780	0.75	250
LGC0805 C-R18	180		100	35	150	650	1.00	180
LGC0805 C-R22	220		100	30	150	630	1.20	180
LGC0805 C-R27	270		100	30	150	540	1.60	170
LGC0805 C-R33	330		100	30	100	480	1.80	170
LGC0805 C-R39	390		100	28	100	450	2.20	160
LGC0805 C-R47	470		100	28	100	380	2.80	150
LGC0805 F-R56	560		K:±10%	25.2	15	25.2	360	0.60
LGC0805 F-R68	680	25.2		15	25.2	340	0.68	140
LGC0805 F-R82	820	25.2		15	25.2	300	0.77	130
LGC0805 F-1R0	1000	25.2		15	25.2	250	0.83	115
LGC0805 F-1R2	1200	7.96		15	25.2	220	0.88	96
LGC0805 F-1R5	1500	7.96		15	25.2	200	1.47	94
LGC0805 F-1R8	1800	7.96		15	25.2	120	1.65	80
LGC0805 F-2R2	2200	7.96		15	25.2	100	1.78	76
LGC0805 F-2R7	2700	7.96		15	25.2	100	2.35	74
LGC0805 F-3R3	3300	7.96		15	25.2	70	2.50	64



LGC1008(2520) Type

Part No.	L (nH)	TOL	F _L (MHz)	Q (min)	F ₀ (MHz)	SRF(min) (MHz)	R _{DC} (max) (Ω)	I _{DC} (max) (mA)
LGC1008 C-3N9	3.9	M:±20%	50	40	1000	6000	0.05	1000
LGC1008 C-8N2	8.2		50	40	500	4200	0.07	1000
LGC1008 C-010	10	M:±20% K:±10%	50	40	500	4100	0.08	1000
LGC1008 C-012	12		50	40	500	3300	0.09	1000
LGC1008 C-018	18		50	50	500	2500	0.11	1000
LGC1008 C-022	22		50	50	500	2000	0.12	1000
LGC1008 C-027	27		50	50	350	1500	0.13	800
LGC1008 C-033	33		50	50	350	1500	0.14	800
LGC1008 C-039	39		50	50	350	1500	0.15	800
LGC1008 C-047	47		50	50	350	1350	0.16	800
LGC1008 C-056	56		50	50	250	1150	0.18	700
LGC1008 C-068	68		50	50	250	1050	0.20	600
LGC1008 C-082	82		50	50	250	950	0.22	550
LGC1008 C-R10	100		K:±10% J:±5%	25.2	50	250	950	0.56
LGC1008 C-R12	120	25.2		50	150	900	0.63	550
LGC1008 C-R15	150	25.2		50	100	850	0.70	550
LGC1008 C-R18	180	25.2		50	100	750	0.77	500
LGC1008 C-R22	220	25.2		45	100	600	0.84	450
LGC1008 C-R27	270	25.2		45	100	550	0.91	400
LGC1008 C-R33	330	25.2		40	100	500	1.05	300
LGC1008 C-R39	390	25.2		40	100	460	1.12	250
LGC1008 C-R47	470	25.2		40	100	425	1.19	250
LGC1008 C-R56	560	25.2		38	100	415	1.33	200
LGC1008 C-R68	680	25.2		38	50	340	1.47	200
LGC1008 C-R82	820	25.2		38	50	325	1.82	150
LGC1008 C-1R0	1000	25.2		38	50	240	1.95	150
LGC1008 C-1R2	1200	7.96		28	50	200	2.00	150
LGC1008 C-1R5	1500	7.96		28	50	165	2.30	140
LGC1008 C-1R8	1800	7.96		28	50	150	2.60	140
LGC1008 C-2R2	2200	7.96		22	50	140	2.80	130
LGC1008 C-2R7	2700	7.96		22	25.2	95	3.20	130
LGC1008 F-3R3	3300	K:±10%	7.96	20	7.96	105	1.68	140
LGC1008 F-3R9	3900		7.96	20	7.96	90	1.82	130
LGC1008 F-4R7	4700		7.96	20	7.96	80	2.00	130
LGC1008 F-5R6	5600		7.96	20	7.96	70	2.30	120

Test: L, Q-HP4286A LCR meter with HP16193A fixture, SRF-HP8753E network analyzer with SMD-D fixture.



FC-D-0001
(SMTS-101)
ON-OFF
SPST 2P



FC-D-0002
(SMTS-102)
ON-ON
SPDT 3P



FC-D-0003
(SMTS-202)
ON-ON
DPDT 6P



FC-D-0004
(SMTS-101-A2)
ON-OFF
SPST 2P



FC-D-0005
(SMTS-102-A2)
ON-ON
SPDT 3P



FC-D-0006
(SMTS-202-A2)
ON-ON
DPDT 6P



FC-D-0007
(SMTS-101-2A1)
ON-OFF
SPST 2P



FC-D-0008
(SMTS-101-2A5)
ON-OFF
SPST 2P



FC-D-0009
(SMTS-102-2A1, SMTS-103-2A1)
SMTS-102-2A1: ON-ON
SMTS-103-2A1: ON-OFF-ON
SPDT 3P



FC-D-0010
(SMTS-202-2A1, SMTS-203-2A1)
SMTS-202-2A1: ON-ON
SMTS-203-2A1: ON-OFF-ON
DPDT 6P



FC-D-0011
(SMTS-101-2C2T)
ON-OFF
SPST 2P



FC-D-0012
(SMTS-102-2C2T, SMTS-103-2C2T)
SMTS-102-2C2T: ON-ON
SMTS-103-2C2T: ON-OFF-ON
SPDT 3P



FC-D-0013
(SMTS-202-2C2T, SMTS-203-2C2T)
SMTS-202-2C2T: ON-ON
SMTS-203-2C2T: ON-OFF-ON
DPDT 6P



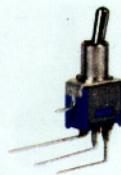
FC-D-0014
(SMTS-102-2C3, SMTS-103-2C3)
SMTS-102-2C3: ON-ON
SMTS-103-2C3: ON-OFF-ON
SPDT 3P



FC-D-0015
(SMTS-202-2C3, SMTS-203-2C3)
SMTS-202-2C3: ON-ON
SMTS-203-2C3: ON-OFF-ON
DPDT 6P



FC-D-0016
(SMTS-101-2C4)
ON-OFF
SPST 2P



FC-D-0017
(SMTS-102-2C4,SMTS-103-2C4)
SMTS-102-2C4:ON-ON
SMTS-103-2C4:ON-OFF-ON
SPDT 3P



FC-D-0018
(SMTS-202-2C4,SMTS-203-2C4)
SMTS-202-2C4:ON-ON
SMTS-203-2C4:ON-OFF-ON
DPDT 6P



FC-D-0019
(SRLS-102-A1,SRLS-103-A1)
SRLS-102-A1:ON-ON
SRLS-103-A1:ON-OFF-ON
SPDT 3P



FC-D-0020
(SRLS-202-A1,SRLS-203-A1)
SRLS-202-A1:ON-ON
SRLS-203-A1:ON-OFF-ON
DPDT 6P



FC-D-0021
(SRLS-102-A2T,SRLS-103-A2T)
SRLS-102-A2T:ON-ON
SRLS-103-A2T:ON-OFF-ON
SPDT 3P



FC-D-0022
(SRLS-202-A2T,SRLS-203-A2T)
SRLS-202-A2T:ON-ON
SRLS-203-A2T:ON-OFF-ON
DPDT 6P



FC-D-0023
(SRLS-102-A3,SRLS-103-A3)
SRLS-102-A3:ON-ON
SRLS-103-A3:ON-OFF-ON
SPDT 3P



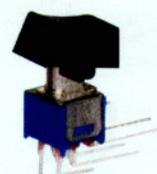
FC-D-0024
(SRLS-202-A3,SRLS-203-A3)
SRLS-202-A3:ON-ON
SRLS-203-A3:ON-OFF-ON
DPDT 6P



FC-D-0025
(SRLS-102-A4,SRLS-103-A4)
SRLS-102-A4:ON-ON
SRLS-103-A4:ON-OFF-ON
SPDT 3P



FC-D-0026
(SRLS-102-A4B,SRLS-103-A4B)
SRLS-102-A4B:ON-ON
SRLS-103-A4B:ON-OFF-ON
SPDT 3P



FC-D-0027
(SRLS-202-A4,SRLS-203-A4)
SRLS-202-A4:ON-ON
SRLS-203-A4:ON-OFF-ON
DPDT 6P



FC-D-0028
(MTS-101)
ON-OFF
SPST 2P



FC-D-0029
(MTS-102,MTS-112,MTS-103,MTS-113,
MTS-123,MTS-1033)
MTS-102:ON-ON; MTS-112:ON-(ON)
MTS-103:ON-OFF-ON; MTS-113:ON-OFF-(ON)
MTS-123:(ON)-OFF-(ON); MTS-1033:ON-ON-ON
SPDT 3P



FC-D-0030
(MTS-201)
ON-OFF
DPST 4P



FC-D-0031
 (MTS-202,MTS-212,MTS-203,MTS-213,
 MTS-223,MTS-2033)
 MTS-202:ON-ON; MTS-212:ON-(ON)
 MTS-203:ON-OFF-ON; MTS-213:ON-OFF-(ON)
 MTS-223:(ON)-OFF-(ON); MTS-2033:ON-ON-ON
 DPDT 6P



FC-D-0032
 (MTS-302,MTS-303)
 MTS-302:ON-ON
 MTS-303:ON-OFF-ON
 3PDT 9P



FC-D-0033
 (MTS-101-A2)
 ON-OFF
 SPST 2P



FC-D-0034
 (MTS-102-A2,MTS-112-A2,MTS-103-A2,
 MTS-113-A2,MTS-123-A2)
 MTS-102-A2:ON-ON; MTS-112-A2:ON-(ON)
 MTS-103-A2:ON-OFF-ON; MTS-113-A2:ON-OFF-(ON)
 MTS-123-A2:(ON)-OFF-(ON)
 SPDT 3P



FC-D-0035
 (MTS-201-A2)
 ON-OFF
 DPST 4P



FC-D-0036
 (MTS-202-A2,MTS-212-A2,MTS-203-A2,
 MTS-213-A2,MTS-223-A2)
 MTS-202-A2:ON-ON; MTS-212-A2:ON-(ON)
 MTS-203-A2:ON-OFF-ON; MTS-213-A2:ON-OFF-(ON)
 MTS-223-A2:(ON)-OFF-(ON)
 DPDT 6P



FC-D-0037
 (MTS-302-A2,MTS-303-A2)
 MTS-302-A2:ON-ON
 MTS-303-A2:ON-OFF-ON
 3PDT 9P



FC-D-0038
 (MTS-102-A2T,MTS-112-A2T,MTS-103-
 A2T,MTS-113-A2T,MTS-123-A2T)
 MTS-102-A2T:ON-ON; MTS-112-A2T:ON-(ON)
 MTS-103-A2T:ON-OFF-ON; MTS-113-A2T:ON-OFF-(ON)
 MTS-123-A2T:(ON)-OFF-(ON)
 SPDT 3P



FC-D-0039
 (MTS-202-A2T,MTS-212-A2T,MTS-203-
 A2T,MTS-213-A2T,MTS-223-A2T)
 MTS-202-A2T:ON-ON; MTS-212-A2T:ON-(ON)
 MTS-203-A2T:ON-OFF-ON; MTS-213-A2T:ON-OFF-(ON)
 MTS-223-A2T:(ON)-OFF-(ON)
 DPDT 6P



FC-D-0040
 (MTS-102-C3,MTS-112-C3,MTS-103-
 C3,MTS-113-C3,MTS-123-C3)
 MTS-102-C3:ON-ON; MTS-112-C3:ON-(ON)
 MTS-103-C3:ON-OFF-ON; MTS-113-C3:ON-OFF-(ON)
 MTS-123-C3:(ON)-OFF-(ON)
 SPDT 3P



FC-D-0041
 (MTS-202-C3,MTS-212-C3,MTS-203-
 C3,MTS-213-C3,MTS-223-C3)
 MTS-202-C3:ON-ON; MTS-212-C3:ON-(ON)
 MTS-203-C3:ON-OFF-ON; MTS-213-C3:ON-OFF-(ON)
 MTS-223-C3:(ON)-OFF-(ON)
 DPDT 6P



FC-D-0042
 (MTS-102-C4,MTS-112-C4,MTS-103-
 C4,MTS-113-C4,MTS-123-C4)
 MTS-102-C4:ON-ON; MTS-112-C4:ON-(ON)
 MTS-103-C4:ON-OFF-ON; MTS-113-C4:ON-OFF-(ON)
 MTS-123-C4:(ON)-OFF-(ON)
 SPDT 3P



FC-D-0043
 (MTS-202-C4,MTS-212-C4,MTS-203-
 C4,MTS-213-C4,MTS-223-C4)
 MTS-202-C4:ON-ON; MTS-212-C4:ON-(ON)
 MTS-203-C4:ON-OFF-ON; MTS-213-C4:ON-OFF-(ON)
 MTS-223-C4:(ON)-OFF-(ON)
 DPDT 6P



FC-D-0044
 (MTS-101-E1)
 ON-OFF
 SPST 2P
 (PLASTIC FLAT LEVER)



FC-D-0045
 (MTS-102-E1,MTS-112-E1,MTS-103-E1,
 MTS-113-E1,MTS-123-E1)
 MTS-102-E1:ON-ON; MTS-112-E1:ON-(ON)
 MTS-103-E1:ON-OFF-ON; MTS-113-E1:ON-OFF-(ON)
 MTS-123-E1:(ON)-OFF-(ON)
 SPDT 3P
 (PLASTIC FLAT LEVER)



FC-D-0046
 (MTS-202-E1, MTS-212-E1, MTS-203-E1,
 MTS-213-E1, MTS-223-E1)
 MTS-202-E1: ON-ON; MTS-212-E1: ON-(ON)
 MTS-203-E1: ON-OFF-ON; MTS-213-E1: ON-OFF-(ON)
 MTS-223-E1: (ON)-OFF-(ON)
 DPDT 6P
 (PLASTIC FLAT LEVER)



FC-D-0047
 (MTS-101-F1)
 ON-OFF
 SPST 2P
 (METAL FLAT LEVER)



FC-D-0048
 (MTS-102-F1, MTS-112-F1, MTS-103-F1,
 MTS-113-F1, MTS-123-F1)
 MTS-102-F1: ON-ON; MTS-112-F1: ON-(ON)
 MTS-103-F1: ON-OFF-ON; MTS-113-F1: ON-OFF-(ON)
 MTS-123-F1: (ON)-OFF-(ON)
 SPDT 3P
 (METAL FLAT LEVER)



FC-D-0049
 (MTS-202-F1, MTS-212-F1, MTS-203-F1,
 MTS-213-F1, MTS-223-F1)
 MTS-202-F1: ON-ON; MTS-212-F1: ON-(ON)
 MTS-203-F1: ON-OFF-ON; MTS-213-F1: ON-OFF-(ON)
 MTS-223-F1: (ON)-OFF-(ON)
 DPDT 6P
 (METAL FLAT LEVER)



FC-D-0050
 (KNX-1, KNX-103)
 KNX-1: ON-ON
 KNX-103: ON-OFF-ON
 SPDT 3P



FC-D-0051
 (KNX-2, KNX-203)
 KNX-2: ON-ON
 KNX-203: ON-OFF-ON
 DPDT 6P



FC-D-0052
 (STM-101)
 STM-101: ON-OFF
 SPST 2P



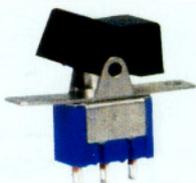
FC-D-0053
 (STM-102, STM-112, STM-103, STM-113,
 STM-123)
 STM-102: ON-ON; STM-112: ON-(ON)
 STM-103: ON-OFF-ON; STM-113: ON-OFF-(ON)
 STM-123: (ON)-OFF-(ON)
 SPDT 3P



FC-D-0054
 (STM-202, STM-212, STM-203, STM-213,
 STM-223)
 STM-202: ON-ON; STM-212: ON-(ON)
 STM-203: ON-OFF-ON; STM-213: ON-OFF-(ON)
 STM-223: (ON)-OFF-(ON)
 DPDT 6P



FC-D-0055
 (MTS-101-L1)
 MTS-101-L1: ON-OFF



FC-D-0056
 (RLS-102-A1, RLS-112-A1, RLS-103-A1,
 RLS-113-A1, RLS-123-A1)
 RLS-102-A1: ON-ON; RLS-112-A1: ON-(ON)
 RLS-103-A1: ON-OFF-ON; RLS-113-A1: ON-OFF-(ON)
 RLS-123-A1: (ON)-OFF-(ON)
 SPDT 3P



FC-D-0057
 (RLS-202-A1, RLS-212-A1, RLS-203-A1,
 RLS-213-A1, RLS-223-A1)
 RLS-202-A1: ON-ON; RLS-212-A1: ON-(ON)
 RLS-203-A1: ON-OFF-ON; RLS-213-A1: ON-OFF-(ON)
 RLS-223-A1: (ON)-OFF-(ON)
 DPDT 6P



FC-D-0058
 (RLS-302-A1, RLS-303-A1)
 RLS-302-A1: ON-ON
 RLS-303-A1: ON-OFF-ON
 3PDT 9P



FC-D-0059
 (RLS-102-A2T, RLS-112-A2T, RLS-103-A2T, RLS-113-A2T, RLS-123-A2T)
 RLS-102-A2T: ON-ON; RLS-112-A2T: ON-(ON)
 RLS-103-A2T: ON-OFF-ON; RLS-113-A2T: ON-OFF-(ON)
 RLS-123-A2T: (ON)-OFF-(ON)
 SPDT 3P



FC-D-0060
 (RLS-202-A2T, RLS-212-A2T, RLS-203-A2T, RLS-213-A2T, RLS-223-A2T)
 RLS-202-A2T: ON-ON; RLS-212-A2T: ON-(ON)
 RLS-203-A2T: ON-OFF-ON; RLS-213-A2T: ON-OFF-(ON)
 RLS-223-A2T: (ON)-OFF-(ON)
 DPDT 6P



FC-D-0061
 (RLS-102-A3, RLS-112-A3, RLS-103-A3, RLS-113-A3, RLS-123-A3)
 RLS-102-A3: ON-ON; RLS-112-A3: ON-(ON)
 RLS-103-A3: ON-OFF-ON; RLS-113-A3: ON-OFF-(ON)
 RLS-123-A3: (ON)-OFF-(ON)
 SPDT 3P



FC-D-0062
 (RLS-102-A3T, RLS-112-A3T, RLS-103-A3T, RLS-113-A3T, RLS-123-A3T)
 RLS-102-A3T: ON-ON; RLS-112-A3T: ON-(ON)
 RLS-103-A3T: ON-OFF-ON; RLS-113-A3T: ON-OFF-(ON)
 RLS-123-A3T: (ON)-OFF-(ON)
 SPDT 3P



FC-D-0063
 (RLS-202-A3, RLS-212-A3, RLS-203-A3, RLS-213-A3, RLS-223-A3)
 RLS-202-A3: ON-ON; RLS-212-A3: ON-(ON)
 RLS-203-A3: ON-OFF-ON; RLS-213-A3: ON-OFF-(ON)
 RLS-223-A3: (ON)-OFF-(ON)
 DPDT 6P



FC-D-0064
 (RLS-102-A4, RLS-112-A4, RLS-103-A4, RLS-113-A4, RLS-123-A4)
 RLS-102-A4: ON-ON; RLS-112-A4: ON-(ON)
 RLS-103-A4: ON-OFF-ON; RLS-113-A4: ON-OFF-(ON)
 RLS-123-A4: (ON)-OFF-(ON)
 SPDT 3P



FC-D-0065
 (RLS-102-A4, RLS-212-A4, RLS-203-A4, RLS-213-A4, RLS-223-A4)
 RLS-202-A4: ON-ON; RLS-212-A4: ON-(ON)
 RLS-203-A4: ON-OFF-ON; RLS-213-A4: ON-OFF-(ON)
 RLS-223-A4: (ON)-OFF-(ON)
 DPDT 6P



FC-D-0066
 (RLS-102-A4T, RLS-112-A4T, RLS-103-A4T, RLS-213-A4T, RLS-223-A4T)
 RLS-102-A4T: ON-ON; RLS-112-A4T: ON-(ON)
 RLS-103-A4T: ON-OFF-ON; RLS-213-A4T: ON-OFF-(ON)
 RLS-223-A4T: (ON)-OFF-(ON)
 SPDT 3P



FC-D-0067
 (RLS-202-A4T, RLS-212-A4T, RLS-203-A4T, RLS-213-A4T, RLS-223-A4T)
 RLS-202-A4T: ON-ON; RLS-212-A4T: ON-(ON)
 RLS-203-A4T: ON-OFF-ON; RLS-213-A4T: ON-OFF-(ON)
 RLS-223-A4T: (ON)-OFF-(ON)
 DPDT 6P



FC-D-0068
 (KN3(C)-101, KN3(C)-101A)
 KN3(C)-101: ON-OFF
 KN3(C)-101A: ON-OFF
 SPST 2P



FC-D-0069
 (KN3(C)-102, KN3(C)-102A, KN3(C)-112, KN3(C)-112A, KN3(C)-103, KN3(C)-103A, KN3(C)-113, KN3(C)-113A, KN3(C)-123, KN3(C)-123A)
 KN3(C)-102: KN3(C)-102A: ON-ON
 KN3(C)-112: KN3(C)-112A: ON-(ON)
 KN3(C)-103: KN3(C)-103A: ON-OFF-ON
 KN3(C)-113: KN3(C)-113A: ON-OFF-(ON)
 KN3(C)-123: KN3(C)-123A: (ON)-OFF-(ON)
 SPDT 3P



FC-D-0070
 (KN3(C)-201, KN3(C)-201A)
 KN3(C)-201: ON-OFF
 KN3(C)-201A: ON-OFF
 DPST 4P



FC-D-0071
 (KN3(C)-202, KN3(C)-202A, KN3(C)-212, KN3(C)-212A, KN3(C)-203, KN3(C)-203A, KN3(C)-213, KN3(C)-213A, KN3(C)-223, KN3(C)-223A)
 KN3(C)-202: KN3(C)-202A: ON-ON
 KN3(C)-212: KN3(C)-212A: ON-(ON)
 KN3(C)-203: KN3(C)-203A: ON-OFF-ON
 KN3(C)-213: KN3(C)-213A: ON-OFF-(ON)
 KN3(C)-223: KN3(C)-223A: (ON)-OFF-(ON)
 DPDT 6P



FC-D-0072
 (KN3(C)-101P, KN3(C)-101AP)
 KN3(C)-101P: ON-OFF
 KN3(C)-101AP: ON-OFF
 SPST 2P



FC-D-0073
 (KN3(C)-102P, KN3(C)-102AP, KN3(C)-112P, KN3(C)-112AP, KN3(C)-103P, KN3(C)-103AP, KN3(C)-113P, KN3(C)-113AP, KN3(C)-123P, KN3(C)-123AP)
 KN3(C)-102P: KN3(C)-102AP: ON-ON
 KN3(C)-112P: KN3(C)-112AP: ON-(ON)
 KN3(C)-103P: KN3(C)-103AP: ON-OFF-ON
 KN3(C)-113P: KN3(C)-113AP: ON-OFF-(ON)
 KN3(C)-123P: KN3(C)-123AP: (ON)-OFF-(ON)
 SPDT 3P



FC-D-0074
(KN3(C)-201P,KN3(C)-201AP)
KN3(C)-201P:ON-OFF
KN3(C)-201AP:ON-OFF
DPST 4P



FC-D-0075
(KN3(C)-202P KN3(C)-202AP,KN3(C)-212P KN3(C)-212AP,KN3(C)-203P
KN3(C)-203AP,KN3(C)-213P KN3(C)-213AP,KN3(C)-223P KN3(C)-223AP)
KN3(C)-202P KN3(C)-202AP:ON-ON
KN3(C)-212P KN3(C)-212AP:ON-(ON)
KN3(C)-203P KN3(C)-203AP:ON-OFF-(ON)
KN3(C)-213P KN3(C)-213AP:ON-OFF-(ON)
KN3(C)-223P KN3(C)-223AP:(ON)-OFF-(ON)
DPDT 6P



FC-D-0076
(KN3(A)-101,KN3(A)-101A)
KN3(A)-101:ON-OFF
KN3(A)-101A:ON-OFF
SPST 2P



FC-D-0077
(KN3(A)-102 KN3(A)-102A,KN3(A)-112 KN3(A)-112A,KN3(A)-103
KN3(A)-103A,KN3(A)-113 KN3(A)-113A,KN3(A)-123 KN3(A)-123A)
KN3(A)-102 KN3(A)-102A:ON-ON
KN3(A)-112 KN3(A)-112A:ON-(ON)
KN3(A)-103 KN3(A)-103A:ON-OFF-(ON)
KN3(A)-113 KN3(A)-113A:ON-OFF-(ON)
KN3(A)-123 KN3(A)-123A:(ON)-OFF-(ON)
SPDT 3P



FC-D-0078
(KN3(B)-101,KN3(B)-101A)
KN3(B)-101:ON-OFF
KN3(B)-101A:ON-OFF
SPST 2P



FC-D-0079
(KN3(B)-102 KN3(B)-102A,KN3(B)-112 KN3(B)-112A,KN3(B)-103
KN3(B)-103A,KN3(B)-113 KN3(B)-113A,KN3(B)-123 KN3(B)-123A)
KN3(B)-102 KN3(B)-102A:ON-ON
KN3(B)-112 KN3(B)-112A:ON-(ON)
KN3(B)-103 KN3(B)-103A:ON-OFF-(ON)
KN3(B)-113 KN3(B)-113A:ON-OFF-(ON)
KN3(B)-123 KN3(B)-123A:(ON)-OFF-(ON)
SPDT 3P



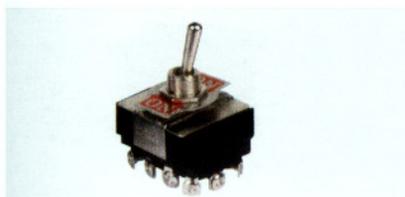
FC-D-0080
(KN3(B)-201,KN3(B)-201A)
KN3(B)-201:ON-OFF
KN3(B)-201A:ON-OFF
DPST 4P



FC-D-0081
(KN3(B)-202 KN3(B)-202A,KN3(B)-212 KN3(B)-212A,KN3(B)-203
KN3(B)-203A,KN3(B)-213 KN3(B)-213A,KN3(B)-223 KN3(B)-223A)
KN3(B)-202 KN3(B)-202A:ON-ON
KN3(B)-212 KN3(B)-212A:ON-(ON)
KN3(B)-203 KN3(B)-203A:ON-OFF-(ON)
KN3(B)-213 KN3(B)-213A:ON-OFF-(ON)
KN3(B)-223 KN3(B)-223A:(ON)-OFF-(ON)
DPDT 6P



FC-D-0082
(KN3(B)-401,KN3(B)-401A)
KN3(B)-401:ON-OFF
KN3(B)-401A:ON-OFF
4PST 8P



FC-D-0083
(KN3(B)-402,KN3(B)-403,KN3(B)-402A,
KN3(B)-403A)
KN3(B)-402:ON-ON
KN3(B)-403:ON-OFF-(ON)
KN3(B)-402A:ON-ON
KN3(B)-403A:ON-OFF-(ON)
4PDT 12P



FC-D-0084
(KN3(D)-101)
ON-OFF
6A 125VAC;3A 250VAC;10A 12VDC
SPST 2P



FC-D-0085
(KN3(D)-102,KN3(D)-103)
KN3(D)-102:ON-ON
KN3(D)-103:ON-OFF-ON
6A 125VAC;3A 250VAC;10A 12VDC
SPDT 3P



FC-D-0086
(KN3(E)-101)
ON-OFF
6A 125VAC;3A 250VAC
SPST 2P
(PLASTIC CAP)



FC-D-0087
(KN3(E)-101P)
ON-OFF
6A 125VAC;3A 250VAC
SPST 2P
(PLASTIC CAP)



FC-D-0088
(KN3(E)-101M)
ON-OFF
6A 125VAC;3A 250VAC
SPST 2P
(METAL LEVER)



FC-D-0089
(KN3(E)-101MP)
ON-OFF
6A 125VAC;3A 250VAC
SPST 2P
(METAL LEVER)



FC-D-0090
(KN3-1)
ON-OFF
4A 125VAC;2A 250VAC
SPST 2P



FC-D-0091
(KN3-2)
ON-OFF
4A 125VAC;2A 250VAC
SPDT 4P



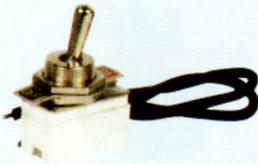
FC-D-0092
(KN3-3)
ON-ON
5A 125VAC;3A 250VAC
DPDT 6P



FC-D-0093
(KN3-103)
ON-OFF-ON
6A 125VAC;3A 250VAC
SPDT 3P



FC-D-0094
(KNS-1)
ON-OFF
6A 125VAC;3A 250VAC;10A 12VDC
SPST 2P



FC-D-0095
(KNS-2)
ON-OFF
6A 125VAC;3A 250VAC;10A 12VDC
SPST 2P



FC-D-0096
(KNH-1)
ON-OFF
6A 125VAC;3A 250VAC;10A 12VDC
SPST 2P



FC-D-0097
(KNH-1S)
ON-OFF
6A 125VAC;3A 250VAC;10A 12VDC
SPST 2P(with screw)



FC-D-0098
(KNT-1)
ON-OFF
20A 12VDC
SPST



FC-D-0099
(SMRS-101-1)
ON-OFF
SPST 2P



FC-D-0100
(SMRS-102-1)
ON-ON
SPDT 3P



FC-D-0101
(SMRS-101N-1)
ON-OFF
SPST 3P(with neon lamp)



FC-D-0102
(SMRS-101-2)
ON-OFF
SPST 2P



FC-D-0103
(SMRS-101N-2, SMRS-102-2)
SMRS-101N-2: ON-OFF
SPST 3P (with neon lamp)
SMRS-102-2: ON-ON
SPDT 3P



FC-D-0104
(MRS-101, MRS-111, MRS-101A, MRS-111A)
MRS-101: ON-OFF; MRS-111: (ON)-OFF
MRS-101A: ON-OFF; MRS-111A: (ON)-OFF
SPST 2P



FC-D-0105
(MRS-102, MRS-102A, MRS-103, MRS-103A, MRS-112, MRS-112A)
MRS-102, MRS-102A: ON-ON
MRS-103, MRS-103A: ON-OFF-ON
MRS-112, MRS-112A: ON-(ON)
SPDT 3P



FC-D-0106
(MIRS-101, MIRS-101A)
MIRS-101: ON-OFF
MIRS-101A
SPST 3P



FC-D-0107
(MIRS-201, MIRS-201A, MRS-201-2, MRS-201A-2)
MIRS-201: ON-OFF; MIRS-201A: ON-OFF
MRS-201-2: ON-OFF; MRS-201A-2: ON-OFF
DPST 4P



FC-D-0108
(MIRS-101-2, MRS-102-2, MRS-103-2, MRS-113-2, MRS-123-2)
MIRS-101-2: ON-OFF SPST 3P
MRS-102-2: ON-ON; MRS-103-2: ON-OFF-ON
MRS-113-2: ON-OFF-(ON); MRS-123-2: (ON)-OFF-(ON)
SPDT 3P 10A 125VAC, 6A 250VAC



FC-D-0109
(MRS-101-2)
ON-OFF
10A 125VAC; 6A 250VAC
SPST 2P



FC-D-0110
(MIRS-101-3+LED)
ON-OFF
6A 125VAC; 3A 250VAC
SPST 4P



FC-D-0111
(MRS-101-5)
ON-OFF
10A 125VAC; 6A 250VAC
SPST 2P



FC-D-0112
(MRS-102-6)
ON-ON
12A 125VAC; 6A 250VAC
SPDT 3P



FC-D-0113
(MRS-201, MRS-211, MRS-201A, MRS-211A)
MRS-201: ON-OFF; MRS-211: (ON)-OFF
MRS-201A: ON-OFF; MRS-211A: (ON)-OFF
DPST 4P



FC-D-0114
(MRS-202, MRS-203, MRS-202A, MRS-203A)
MRS-202: ON-ON; MRS-203: ON-OFF-ON
MRS-202A: ON-ON; MRS-203A: ON-OFF-ON
DPDT 6P



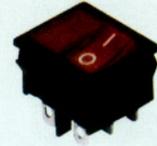
FC-D-0115
(MRS-2101, MRS-2111, MRS-2101A, MRS-2111A)
MRS-2101: ON-OFF; MRS-2111: (ON)-OFF
MRS-2101A: ON-OFF; MRS-2111A: (ON)-OFF
DPST 4P



FC-D-0116
 (MRS-2102, MRS-2103, MRS-2102A, MRS-2103A)
 MRS-2102: ON-ON; MRS-2103: ON-OFF-ON
 MRS-2102A: ON-ON; MRS-2103A: ON-OFF-ON
 DPDT 6P



FC-D-0117
 (MIRS-2101)
 MIRS-2101: ON-OFF
 10A 125VAC; 6A 250VAC
 DPST 6P



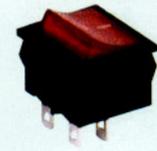
FC-D-0118
 (MIRS-2101L)
 MIRS-2101L: ON-OFF
 10A 125VAC; 6A 250VAC
 SPST+LAMP SOCKET



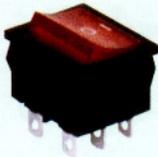
FC-D-0119
 (MRS-201-3)
 ON-OFF
 6A 125VAC; 3A 250VAC
 DPST 4P



FC-D-0120
 (MRS-202-3, MRS-203-3)
 MRS-202-3: ON-ON
 MRS-203-3: ON-OFF-ON
 6A 125VAC; 3A 250VAC
 DPDT 6P



FC-D-0121
 (MIRS-201-4, MRS-201-4)
 MIRS-201-4: ON-OFF
 MRS-201-4: ON-OFF
 10A 125VAC; 6A 250VAC
 DPST 4P



FC-D-0122
 (MIRS-202-4)
 ON-ON
 10A 125VAC; 6A 250VAC
 DPDT 6P



FC-D-0123
 (RS-101-1A)
 ON-OFF
 SPST 2P



FC-D-0124
 (RS-101-1B)
 ON-OFF
 SPST 2P



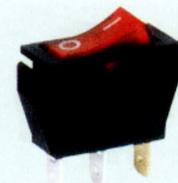
FC-D-0125
 (RS-101-1C, RS-111-1C)
 RS-101-1C: ON-OFF
 RS-111-1C: (ON)-OFF
 SPST 2P



FC-D-0126
 (IRS-101-1A, RS-102-1A)
 IRS-101-1A: ON-OFF
 SPST 3P
 RS-102-1A: ON-ON
 SPDT 3P



FC-D-0127
 (IRS-101-1B, RS-102-1B)
 IRS-101-1B: ON-OFF
 SPST 3P
 RS-102-1B: ON-ON
 SPDT 3P



FC-D-0128
 (IRS-101-1C, RS-102-1C)
 IRS-101-1C: ON-OFF
 SPST 3P
 RS-102-1C: ON-ON
 SPDT 3P



FC-D-0129
(RS-101-2A)
ON-OFF
SPST 2P



FC-D-0130
(RS-101-2B)
ON-OFF
SPST 2P



FC-D-0131
(RS-101-2C)
ON-OFF
SPST 2P



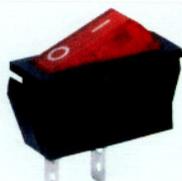
FC-D-0132
(IRS-101-2A,RS-102-2A)
IRS-101-2A:ON-OFF
SPST 3P
RS-102-2A:ON-ON
SPDT 3P



FC-D-0133
(IRS-101-2B,RS-102-2B)
IRS-101-2B:ON-OFF
SPST 3P
RS-102-2B:ON-ON
SPDT 3P



FC-D-0134
(IRS-101-2C,RS-102-2C)
IRS-101-2C:ON-OFF
SPST 3P
RS-102-2C:ON-ON
SPDT 3P



FC-D-0135
(RS-101-3A)
ON-OFF
SPST 2P



FC-D-0136
(RS-101-3B)
ON-OFF
SPST 2P



FC-D-0137
(RS-101-3C)
ON-OFF
SPST 2P



FC-D-0138
(IRS-101-3A,RS-102-3A,RS-103-3A)
IRS-101-3A:ON-OFF
SPST 3P
RS-102-3A:ON-ON
RS-103-3A:ON-OFF-ON
SPDT 3P



FC-D-0139
(IRS-101-3B,RS-102-3B,RS-103-3B)
IRS-101-3B:ON-OFF
SPST 3P
RS-102-3B:ON-ON
RS-103-3B:ON-OFF-ON
SPDT 3P



FC-D-0140
(IRS-101-3C,RS-102-3C,RS-103-3C)
IRS-101-3C:ON-OFF
SPST 3P
RS-102-3C:ON-ON
RS-103-3C:ON-OFF-ON
SPDT 3P



FC-D-0141
(RS-101-5A)
ON-OFF
SPST 2P



FC-D-0142
(IRS-101-5A,RS-102-5A)
IRS-101-5A:ON-OFF
SPST 3P
RS-102-5A:ON-ON
SPDT 3P



FC-D-0143
(RS-101-7C)
ON-OFF
10A 125VAC; 6A 250VAC
SPST 2P



FC-D-0144
(RS-101-8C)
ON-OFF
13A 125VAC; 6.5A 250VAC
SPST 2P



FC-D-0145
(IRS-101-8C,RS-102-8C,IRS-103-8C)
IRS-101-8C:ON-OFF
SPST 3P
RS-102-8C:ON-ON
IRS-103-8C:ON-OFF-ON
SPDT 3P
13A 125VAC; 6.5A 250VAC



FC-D-0146
(RS-101-10C)
ON-OFF
5A 125VAC; 2A 250VAC
SPST 2P



FC-D-0147
(RS-102-10C)
ON-ON
5A 125VAC; 2A 250VAC
SPDT 3P



FC-D-0148
(RS-101-11C)
ON-OFF
SPST 2P



FC-D-0149
(IRS-101-11C,RS-102-11C,RS-103-11C,
RS-123-11C)
IRS-101-11C:ON-OFF SPST 3P
RS-102-11C:ON-ON RS-103-11C:ON-OFF-ON
RS-123-11C:(ON)-OFF-ON
SPDT 3P



FC-D-0150
(RS-101-16C)
ON-OFF
SPST 2P



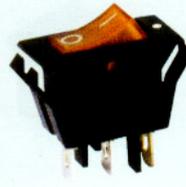
FC-D-0151
(RS-102-16C,RS-103-16C)
RC-102-16C:ON-ON
RS-103-16C:ON-OFF-ON
SPDT 3P



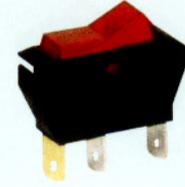
FC-D-0152
(IRS-1-2A)
ON-OFF
15A 125VAC; 10A 250VAC
SPST 3P



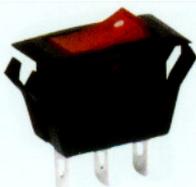
FC-D-0153
(IRS-1-2B)
ON-OFF
15A 125VAC; 10A 250VAC
SPST 3P



FC-D-0154
(IRS-1-2C)
ON-OFF
15A 125VAC; 10A 250VAC
SPST 3P



FC-D-0155
(IRS-1-3B)
ON-OFF
15A 125VAC; 10A 250VAC
SPST 3P



FC-D-0156
(IRS-1-4C)
ON-OFF
15A 125VAC; 10A 250VAC
SPST 3P
L=7.5,11



FC-D-0157
(IRS-1-R1)
ON-OFF
With Built-in Circuit Breaker Rating :15A 250VAC/125VAC
Circuit Breaker Rating :30A Trip time3~20 Sec.
SPST 3P



FC-D-0158
(IRS-1-5B)
ON-OFF
15A 125VAC; 10A 250VAC
SPST 3P



FC-D-0159
(IRS-1-6C)
ON-OFF
15A 125VAC; 10A 250VAC
SPST 3P



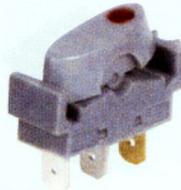
FC-D-0160
(IRS-1-7A)
ON-OFF
15A 125VAC; 10A 250VAC
SPST 3P



FC-D-0161
(IRS-101E-1C)
ON-OFF
20A 125VAC; 15A 250VAC
SPST 3P



FC-D-0162
(IRS-1E-2C)
ON-OFF
15A 125VAC; 10A 250VAC
SPST 3P



FC-D-0163
(IRS-101E-3A)
ON-OFF
15A 125VAC; 10A 250VAC
SPST 3P



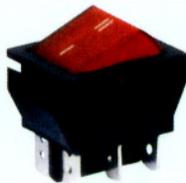
FC-D-0164
(IRS-201-1A,RS-201-1A)
IRS-201-1A:ON-OFF
RS-201-1A:ON-OFF
DPST 4P



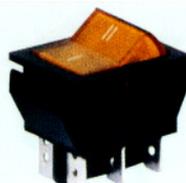
FC-D-0165
(IRS-201-1B,RS-201-1B)
IRS-201-1B:ON-OFF
RS-201-1B:ON-OFF
DPST 4P



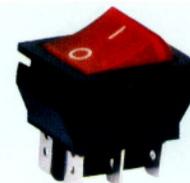
FC-D-0166
(IRS-201-1C,RS-201-1C)
IRS-201-1C:ON-OFF
RS-201-1C:ON-OFF
DPST 4P



FC-D-0167
(IRS-202-1A,IRS-203-1A,RS-202-1A,
RS-203-1A)
IRS-202-1A:ON-ON; IRS-203-1A:ON-OFF-ON
RS-202-1A:ON-ON; RS-203-1A:ON-OFF-ON
DPDT 6P



FC-D-0168
(IRS-202-1B,IRS-203-1B,RS-202-1B,
RS-203-1B)
IRS-202-1B:ON-ON; IRS-203-1B:ON-OFF-ON
RS-202-1B:ON-ON; RS-203-1B:ON-OFF-ON
DPDT 6P



FC-D-0169
(IRS-202-1C,IRS-203-1C,RS-202-1C,
RS-203-1C)
IRS-202-1C:ON-ON; IRS-203-1C:ON-OFF-ON
RS-202-1C:ON-ON; RS-203-1C:ON-OFF-ON
DPDT 6P



FC-D-0170
(IRS-201-2A,RS-201-2A)
IRS-201-2A:ON-OFF
RS-201-2A:ON-OFF
DPST 4P



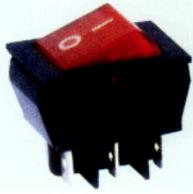
FC-D-0171
(IRS-201-2B,RS-201-2B)
IRS-201-2B:ON-OFF
RS-201-2B:ON-OFF
DPST 4P



FC-D-0172
(IRS-201-2C,RS-201-2C)
IRS-201-2C:ON-OFF
RS-201-2C:ON-OFF
DPST 4P

SINGLE - POLE ROCKER SWITCH

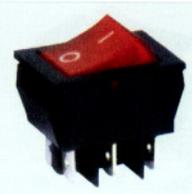
DOUBLE - POLES ROCKER SWITCH



FC-D-0173
 (IRS-202-2A,RS-202-2A)
 IRS-202-2A:ON-ON
 RS-202-2A:ON-ON
 DPDT 6P



FC-D-0174
 (IRS-202-2B,RS-202-2B)
 IRS-202-2B:ON-ON
 RS-202-2B:ON-ON
 DPDT 6P



FC-D-0175
 (IRS-202-2C,RS-202-2C)
 IRS-202-2C:ON-ON
 RS-202-2C:ON-ON
 DPDT 6P



FC-D-0176
 (IRS-201-3A,RS-201-3A)
 IRS-201-3A:ON-OFF
 RS-201-3A:ON-OFF
 DPST 4P



FC-D-0177
 (IRS-201-3C,RS-201-3C,RS-211-3C)
 IRS-201-3C:ON-OFF
 RS-201-3C:ON-OFF
 RS-211-3C:(ON)-OFF
 DPST 4P



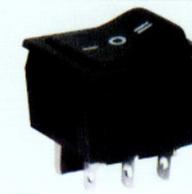
FC-D-0178
 (IRS-202-3A,RS-202-3A)
 IRS-202-3A:ON-ON
 RS-202-3A:ON-ON
 DPDT 6P



FC-D-0179
 (IRS-202-3C,RS-202-3C)
 IRS-202-3C:ON-ON
 RS-202-3C:ON-ON
 DPDT 6P



FC-D-0180
 (RS-201-4C)
 ON-OFF
 DPST 4P



FC-D-0181
 (IRS-202-4C,RS-203-4C,RS-223-4C)
 IRS-202-4C:ON-ON
 RS-203-4C:ON-OFF-ON
 RS-223-4C:(ON)-OFF-(ON)
 DPDT 6P



FC-D-0182
 (RS-202-5C,RS-203-5C)
 RS-202-5C:ON-ON
 RS-203-5C:ON-OFF-ON
 6A 125VAC; 3A 250VAC
 DPDT 6P



FC-D-0183
 (RS-2101-1A)
 ON-OFF
 DPST 4P



FC-D-0184
 (RS-2101-1B)
 ON-OFF
 DPST 4P



FC-D-0185
 (RS-2101-1C)
 ON-OFF
 DPST 4P



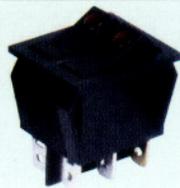
FC-D-0186
 (IRS-2101-1A,RS-2102-1A)
 IRS-2101-1A:ON-OFF
 DPST 6P
 RS-2102-1A:ON-ON
 DPDT 6P



FC-D-0187
 (IRS-2101-1B,RS-2102-1B)
 IRS-2101-1B:ON-OFF
 DPST 6P
 RS-2102-1B:ON-ON
 DPDT 6P



FC-D-0188
(IRS-2101-1C,RS-2102-1C)
IRS-2101-1C:ON-OFF
DPST 6P
RS-2102-1C:ON-ON
DPDT 6P



FC-D-0189
(IRS-2101E-1C)
ON-OFF
DPST 6P



FC-D-0190
(IRS-2101-3C)
ON-OFF
DPST 6P



FC-D-0191
(PBS-11A,PBS-11B,PBS-11C)
PBS-11A:ON-OFF
PBS-11B:OFF-(ON)
PBS-11C:ON-(OFF)



FC-D-0192
(PBS-12A,PBS-12B,PBS-12C)
PBS-12A:ON-OFF
PBS-12B:OFF-(ON)
PBS-12C:ON-(OFF)



FC-D-0193
(PBS-14A,PBS-14B,PBS-14C)
PBS-14A:ON-OFF
PBS-14B:OFF-(ON)
PBS-14C:ON-(OFF)



FC-D-0194
(PBS-16A,PBS-16B,PBS-16C)
PBS-16A:ON-OFF
PBS-16B:OFF-(ON)
PBS-16C:ON-(OFF)



FC-D-0195
(PBS-13B,PBS-13C)
PBS-13B:OFF-(ON)
PBS-13C:ON-(OFF)
8A 125VAC; 4A 250VAC



FC-D-0196
(PBS-10B)
OFF-(ON)
(plastic rod)



FC-D-0197
(PBS-10B-2,PBS-10C-2)
PBS-10B-2:OFF-(ON)
PBS-10C-2:ON-(OFF)
(metal rod)



FC-D-0198
(PBS-15A)
ON-OFF



FC-D-0199
(PBS-15B,PBS-15C)
PBS-15B:OFF-(ON)
PBS-15C:ON-(OFF)



FC-D-0200
(PBS-17A)
ON-OFF
4A 125VAC; 2A 250VAC



FC-D-0201
(PBS-17A-2)
ON-OFF



FC-D-0202
(PBS-17A-3)
ON-OFF
4A 125VAC; 2A 250VAC



FC-D-0203
 (PBS-19B,PBS-19C)
 PBS-19B:OFF-(ON)
 PBS-19C:ON-(OFF)
 5A 125VAC; 2.5A 250VAC



FC-D-0204
 (PBS-19B-2,PBS-19C-2)
 PBS-19B-2:OFF-(ON)
 PBS-19C-2:ON-(OFF)
 5A 125VAC; 2.5A 250VAC



FC-D-0205
 (PBS-19B-3,PBS-19C-3)
 PBS-19B-3:OFF-(ON)
 PBS-19C-3:ON-(OFF)
 5A 125VAC; 2.5A 250VAC



FC-D-0206
 (PBS-20A,PBS-20B)
 PBS-20A:ON-OFF
 PBS-20B:OFF-(ON)



FC-D-0207
 (PBS-20A-2,PBS-20B-2)
 PBS-20A-2:ON-OFF
 PBS-20B-2:OFF-(ON)



FC-D-0208
 (PBS-21A,PBS-21B)
 PBS-21A:ON-OFF
 PBS-21B:OFF-(ON)



FC-D-0209
 (PBS-22A,PBS-22B)
 PBS-22A:ON-OFF
 PBS-22B:OFF-(ON)



FC-D-0210
 (PBS-23B)
 OFF-(ON)



FC-D-0211
 (PBS-24B-2,PBS-24C-2)
 PBS-24B-2:OFF-(ON)
 PBS-24C-2:ON-(OFF)
 10A 125VAC; 6A 250VAC
 SPST 2P



FC-D-0212
 (PBS-24-102,PBS-24-112)
 PBS-24-102:ON-ON
 PBS-24-112:ON-(ON)
 4A 125VAC; 2A 250VAC
 SPDT 3P
 (L=14.2,11.8,9.8)



FC-D-0213
 (PBS-24-202,PBS-24-212)
 PBS-24-202:ON-ON
 PBS-24-212:ON-(ON)
 4A 125VAC; 2A 250VAC
 DPDT 6P
 (L=14.2,11.8,9.8)



FC-D-0214
 (PBS-24-102P,PBS-24-112P)
 PBS-24-102P:ON-ON
 PBS-24-112P:ON-(ON)
 4A 125VAC; 2A 250VAC
 SPDT 3P
 (PC terminal)
 (L=14.2,11.8,9.8)



FC-D-0215
 (PBS-24-202P,PBS-24-212P)
 PBS-24-202P:ON-ON
 PBS-24-212P:ON-(ON)
 4A 125VAC; 2A 250VAC
 DPDT 6P
 (PC terminal)
 (L=14.2,11.8,9.8)



FC-D-0216
 (PBS-26B,PBS-26C)
 PBS-26B:OFF-(ON)
 PBS-26C:ON-(OFF)
 4A 125VAC; 2A 250VAC



FC-D-0217
 (PBS-27B)
 OFF-(ON)



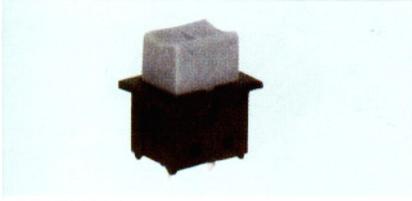
FC-D-0218
(PBS-28B)
OFF-(ON)
4A 125VAC; 2A 250VAC



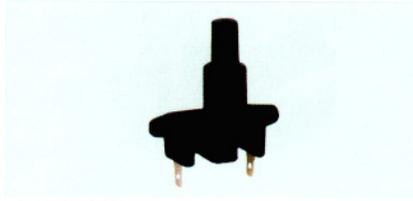
FC-D-0219
(PBS-29B)
OFF-(ON)



FC-D-0220
(PBS-30B)
OFF-(ON)



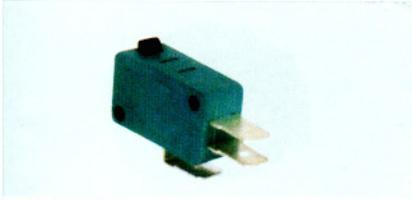
FC-D-0221
(PBS-31B)
OFF-(ON)



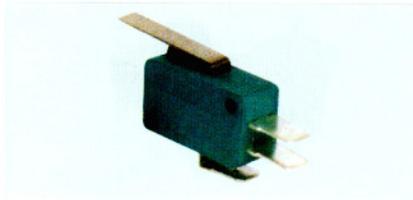
FC-D-0222
(PBS-32B)
OFF-(ON)
10A 125VAC; 6A 250VAC



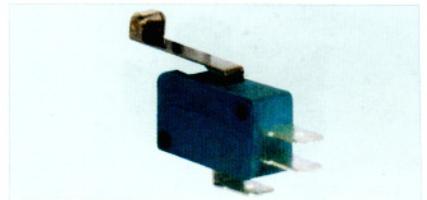
FC-D-0223
(PBS-33B)
OFF-(ON)



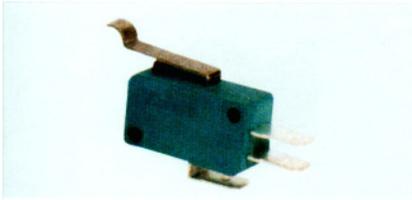
FC-D-0224
(MSW-01,MSW-01B)
MSW-01:ON-(ON)
10A:125/250VAC
MSW-01B:ON-(ON)
5A:125/250VAC
SPDT 3P



FC-D-0225
(MSW-02,MSW-02B)
MSW-02:ON-(ON)
10A:125/250VAC
MSW-02B:ON-(ON)
5A:125/250VAC
SPDT 3P
L=13,17,27,31,38,53



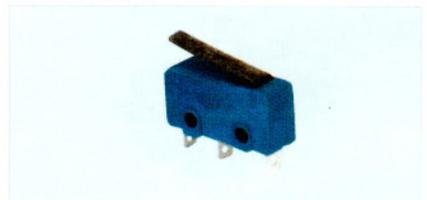
FC-D-0226
(MSW-03,MSW-03B)
MSW-03:ON-(ON)
10A:125/250VAC
MSW-03B:ON-(ON)
5A:125/250VAC
SPDT 3P
L=12,25



FC-D-0227
(MSW-04,MSW-04B)
MSW-04:ON-(ON)
10A:125/250VAC
MSW-04B:ON-(ON)
5A:125/250VAC
SPDT 3P



FC-D-0228
(MSW-11,MSW-11B)
MSW-11:ON-(ON)
5A:125/250VAC
MSW-11B:ON-(ON)
3A:125/250VAC
SPDT 3P



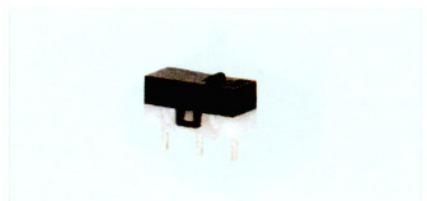
FC-D-0229
(MSW-12,MSW-12B)
MSW-12:ON-(ON)
5A:125/250VAC
MSW-12B:ON-(ON)
3A:125/250VAC
L=17,21,29
SPDT 3P



FC-D-0230
(MSW-13,MSW-13B)
MSW-13:ON-(ON)
5A:125/250VAC
MSW-13B:ON-(ON)
3A:125/250VAC
SPDT 3P



FC-D-0231
(MSW-14,MSW-14B)
MSW-14:ON-(ON)
5A:125/250VAC
MSW-14B:ON-(ON)
3A:125/250VAC
SPDT 3P

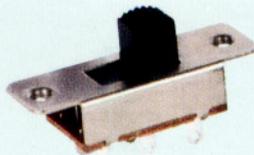


FC-D-0232
(MSW-21)
1A 125/250VAC
SPDT 3P

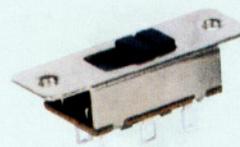
SLIDE SWITCH



FC-D-0233
(MSW-22)
1A 125/250VAC
SPDT 3P



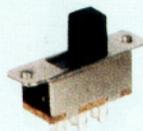
FC-D-0234
(KBB70-2P2W,KBB70-2P3W)
KBB70-2P2W:ON-ON
KBB70-2P3W:ON-OFF-ON
6A 125VAC; 3A 250VAC
DPDT 6P



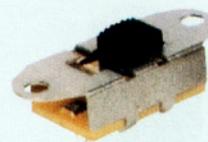
FC-D-0235
(KBB70(P)-2P2W)
ON-ON
6A 125VAC; 3A 250VAC
DPDT 6P



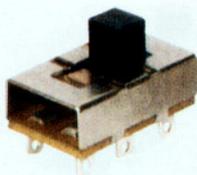
FC-D-0236
(KBB70-1P3W)
ON-OFF-ON
1A 125VAC; 0.5A 250VAC
SPDT 3P



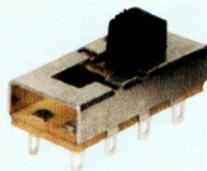
FC-D-0237
(KBB40-2P2W)
ON-ON
1A 125VAC; 0.5A 250VAC
DPDT 6P



FC-D-0238
(KBB80-1P2W)
ON-ON
1A 125VAC; 0.5A 250VAC
SPDT 3P



FC-D-0239
(KBB80-2P2W)
ON-ON
1A 125VAC; 0.5A 250VAC
DPDT 6P



FC-D-0240
(KBB80-2P3W)
ON-ON-ON
1A 125VAC; 0.5A 250VAC
DPST 8P



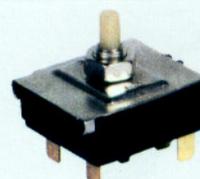
FC-D-0241
(SS-01,SS-01R)
SS-01:ON-OFF
SS-01R:(ON)-OFF
15A 125VAC; 10A 250VAC
DPST 4P



FC-D-0242
(RBS-2)
11W1P
5A 125VAC; 3A 250VAC



FC-D-0243
(RBS-3)
11W1P
10A 125VAC; 5A 250VAC



FC-D-0244
(RBS-4)
4WAYS1~2POLES
20A 125VAC; 15A 250VAC



FC-D-0245
(RBS-5-1P4W 2P,RBS-5-1P4W 3P)
3A 125VAC; 1A 250VAC

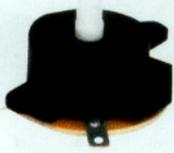


FC-D-0246
(RBS-6-2P12W)
1A 125VAC; 0.5A 250VAC 5P



FC-D-0247
(RBS-7-1P 3~4W)
3A 125VAC; 1.5A 250VAC

ROTARY SWITCH



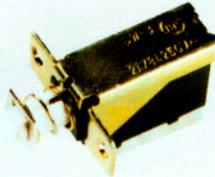
FC-D-0248
(RBS-8-1P4W)
3A 125VAC; 1.5A 250VAC



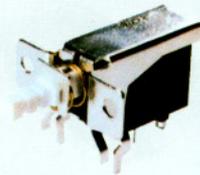
FC-D-0249
(RBS-1)
2-12 WAYS
1-6 POLES
0.5A 125VAC; 0.3A 250VAC



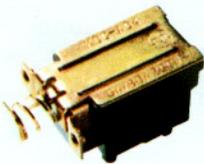
FC-D-0250
(SW-2-M20)



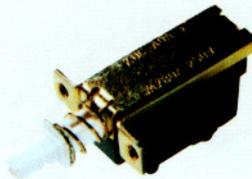
FC-D-0251
(SW-3-T20)



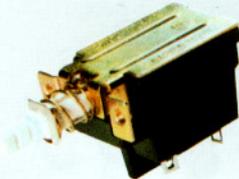
FC-D-0252
(SW-3-H14)



FC-D-0253
(KDC-A04-YM20)



FC-D-0254
(KDC-A04-D-YT32)



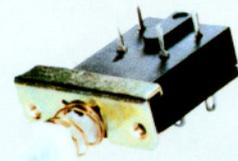
FC-D-0255
(KDC-A04-PM20)



FC-D-0256
(KDC-A04-D-PM20)



FC-D-0257
(KDC-A04-CM20)



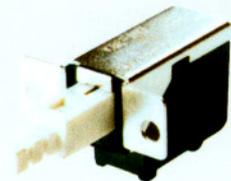
FC-D-0258
(KDC-A05-11M25)



FC-D-0259
(KDC-A05-01H15)



FC-D-0260
(KDC-A05-10W)

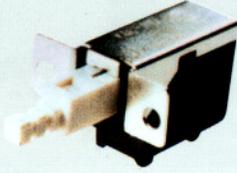


FC-D-0261
(KDC-A10-YT20)

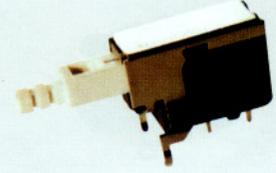
POWER SWITCH



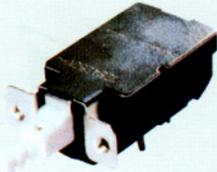
FC-D-0262
(KDC-A10-YT20-1)



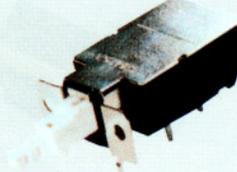
FC-D-0263
(KDC-A10-PT20)



FC-D-0264
(KDC-A10-H14)



FC-D-0265
(KDC-A11-YM20)



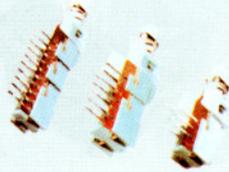
FC-D-0266
(KDC-A11-YT20-1)



FC-D-0267
(KDC-A11-PM20)



FC-D-0268
(KAN)



FC-D-0269
(KAN1)



FC-D-0270
(KJ66-2)



FC-D-0271
(KJ66-2A)



FC-D-0272
(KJ66-1)



FC-D-0273
(KJ66-1-D)



FC-D-0274
(KJ66-1-2)



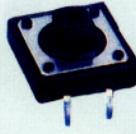
FC-D-0275
(KJ66-1-□ S)

PUSH - BUTTON SWITCH

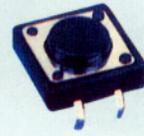
LIGHT TOUCH SWITCH



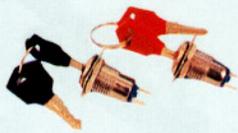
FC-D-0276
(KJ66-1-D-□S)



FC-D-0277
(KJ12-1)



FC-D-0278
(KJ12-4)



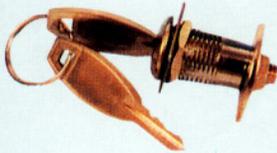
FC-D-0279
(KDS-02)



FC-D-0280
(KDS-03)



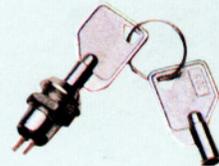
FC-D-0281
(KDS-04)



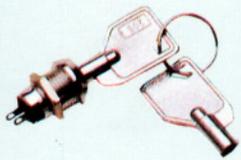
FC-D-0282
(DS-05)



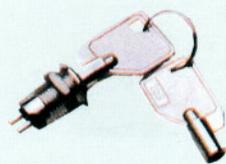
FC-D-0283
(S104)



FC-D-0284
(S102-01)



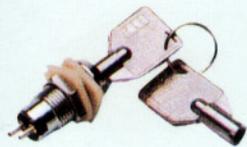
FC-D-0285
(S102-02)



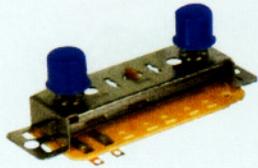
FC-D-0286
(S102-03)



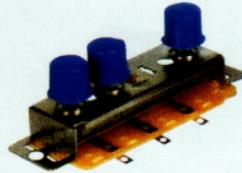
FC-D-0287
(S102-04)



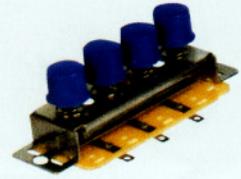
FC-D-0288
(S102)



FC-D-0289
(KS-2W2P)
10A 125VAC; 5A 250VAC



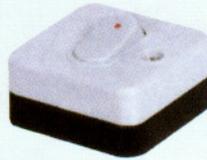
FC-D-0290
(KS-3W3P)
10A 125VAC; 5A 250VAC



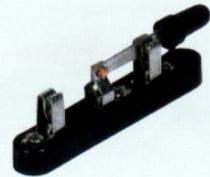
FC-D-0291
(KS-4W3P)
10A 125VAC; 5A 250VAC



FC-D-0292
(IRS-1-R1)
ON-OFF
With Built-in Circuit Breaker Rating: 15A 250VAC/125VAC
Circuit Breaker Rating: 30A Trip time 3~20 Sec.
SPST 3P



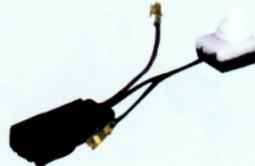
FC-D-0293
(WRS-01)
ON-OFF
10A 125VAC; 6A 250VAC
SPST



FC-D-0294
(KFS-01)
ON-ON
10A 12VDC
SPDT



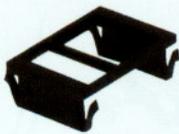
FC-D-0295
(HDS-01)
6A 125VAC; 3A 250VAC
DPST



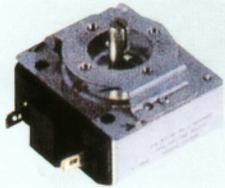
FC-D-0296
(ASS-01)
6A 12VDC



FC-D-0297
(SSC-01)
SWITCH SOCKET



FC-D-0298
(SSC-02)
SWITCH SOCKET



FC-D-0299
oven timer without ring
Time Setting Range:5',7',15',30',45',60',75',90',
100',120',180'
Endurable Life: 10000 times or more, at 6 times/
minute.
Time Tolerance:±5%.....±10%



FC-D-0300
oven timer without ring
Time Setting Range:5',7',15',30',45',60',75',90',
100',120',180'
Endurable Life: 10000 times or more, at 6 times/
minute.
Time Tolerance:±5%.....±10%



FC-D-0301
(0032 Series)
Time Setting Range:15',20',30',60'
Endurable Life: 5000 times or more, at 6
times/minute.
Time Tolerance:±4%



FC-D-0302
(0033 Series)
oven timer without ring
Time Setting Range:15',20',30',60'
Endurable Life: 5000 times or more, at 6 times/
minute.
Time Tolerance:±4%



FC-D-0303
(C20)
Double Contact Timer
Electric Properties:16A250V.AC
Dielectric Strength:2250V AC last 1 second
Ambient Temperature:-10°C~125°C



FC-D-0304
Pill Timers



FC-D-0305
Pill Timers



FC-D-0306
Pill Timers



FC-D-0307
Pill Timers



FC-D-0308
Pill Timers



FC-D-0309
Pill Timers



FC-D-0310
Pill Timers



FC-D-0311
(HD-11)
77x62x30mm



FC-D-0312
(HD-12)
77x64x30mm



FC-D-0313
(HD-20)
72x72x55mm

OVEN TIMER

PILL TIMER

KITCHEN TIMER

E-mail:ceiec@public.cz.js.cn

Http://www.ceiec.com

Tel:+86-519-6600389

Fax:+86-519-6607378, 6606496



FC-D-0314
(HD-21)
69x69x54mm



FC-D-0315
(HD-22)
72x70x43mm



FC-D-0316
(HD-23)
ø94x53mm



FC-D-0317
(HD-25)
78x76x98mm



FC-D-0318
(HD-26)
93x93x52mm



FC-D-0319
(HD-27)
78x46x85mm



FC-D-0320
(HD-30)
ø66x58mm



FC-D-0321
(HD-31)
ø67x76mm



FC-D-0322
(HD-31B)
ø66x70mm



FC-D-0323
(HD-32)
ø67x78mm



FC-D-0324
(HD-32B)
ø67x78mm



FC-D-0325
(HD-33)
ø66x80mm



FC-D-0326
(HD-34)
ø67x94mm



FC-D-0327
(HD-35)
ø67x80mm



FC-D-0328
(HD-36)
ø60x115mm



FC-D-0329
(HD-37)
ø72x58mm



FC-D-0330
(HD-40)
ø68x90mm



FC-D-0331
(HD-41)
ø59x70mm



FC-D-0332
(HD-42)
ø54x100mm



FC-D-0333
(HD-43)
ø64x82mm



FC-D-0334
(HD-43B)
ø64x82mm



FC-D-0335
(HD-44)
ø54x74mm



FC-D-0336
(HD-45)
ø56x94mm



FC-D-0337
(HD-46)
ø67x82mm



FC-D-0338
(HD-47)
ø54x86mm



FC-D-0339
(HD-48)
ø60x62mm



FC-D-0340
(HD-49)
ø60x67mm



FC-D-0341
(HD-50)
ø85x50mm



FC-D-0342
(HD-51)
ø80x70mm



FC-D-0343
(HD-52)
ø80x70mm



FC-D-0344
(HD-53)
ø70x66mm



FC-D-0345
(HD-54)
ø80x70mm



FC-D-0346
(HD-55)
ø64x55x78mm



FC-D-0347
(HD-56)
ø59x63x65mm



FC-D-0348
(HD-57)
ø75x97mm



FC-D-0349
(HD-58)
ø66x84mm



FC-D-0350
(HD-59)
ø68x63mm



FC-D-0351
(HD-61)
ø70x108mm



FC-D-0352
(HD-62)
ø72x66mm



FC-D-0353
(HD-63)
ø67x97mm



FC-D-0354
(HD-64)
ø61x82mm



FC-D-0355
(HD-67)
ø65x86mm



FC-D-0356
(HD-68)
ø60x122mm



FC-D-0357
(HD-69)
ø70x77mm



FC-D-0358
(HD-70)
ø60x60mm



FC-D-0359
(HD-70B)
ø63x68mm



FC-D-0360
(HD-71)
ø54x73mm



FC-D-0361
(HD-73)
ø54x72mm



FC-D-0362
(HD-74)
ø63x66mm



FC-D-0363
(HD-75)
ø63x65mm



FC-D-0364
(HD-76)
ø63x68mm



FC-D-0365
(HD-77)
ø63x104mm



FC-D-0366
(HD-78)
ø58x98mm



FC-D-0367
(HD-79)
ø57x103mm



FC-D-0368
(HD-80)
ø63x71mm



FC-D-0369
(HD-81)
ø58x98mm



FC-D-0370
(HD-82)
ø58x91mm



FC-D-0371
(HD-83)
ø60x38mm



FC-D-0372
(HD-84)
ø90x39mm



FC-D-0373
(HD-85)
ø57x96mm



FC-D-0374
(HD-85B)
ø57x96mm



FC-D-0375
(HD-86)
ø58x95mm



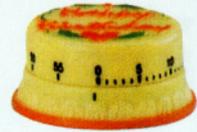
FC-D-0376
(HD-87)
ø74x78mm



FC-D-0377
(HD-88)
72x42x120mm



FC-D-0378
(HD-89)
ø57x110mm



FC-D-0379
(HD-90)
ø73x35mm



FC-D-0380
(HD-91)
ø61x73mm



FC-D-0381
(HD-92)
ø61x75mm



FC-D-0382
(HD-93)
ø72x58mm



FC-D-0383
(HD-94)
ø68x71mm



FC-D-0384
(HD-96)
ø58x90mm



FC-D-0385
(HD-97)
ø70x95mm



FC-D-0386
(HD-98)
ø69x79mm



FC-D-0387
(HD-99)
ø93x49mm



FC-D-0388
(HD-100)
ø80x70mm

E-mail:ceiecz@public.cz.js.cn

Http://www.ceiecz.com

Tel:+86-519-6600389

Fax:+86-519-6607378, 6606496

KITCHEN TIMER



FC-D-0389
(HD-101)
ø58x94mm



FC-D-0390
(HD-102)
ø57x94mm



FC-D-0391
(HD-103)
ø58x95mm



FC-D-0392
(HD-104)
58x104x88mm



FC-D-0393
(HD-105)
ø57x136mm



FC-D-0394
(HD-106)
66x56x101mm



FC-D-0395
(HD-109)
ø66x105mm



FC-D-0396
(HD-110)
75x113x68mm



FC-D-0397
(HD-301)
115x65x153mm



FC-D-0398
(HD-301B)
105x65x110mm



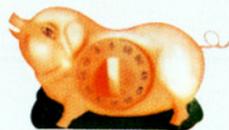
FC-D-0399
(HD-302)
152x65x113mm



FC-D-0400
(HD-302B)
124x60x73mm



FC-D-0401
(HD-303)
135x76x92mm



FC-D-0402
(HD-303B)
124x58x77mm

GERMAN STYLE(24 HOURS TIMER)



FC-D-0403
(TS-MD1 (A))
With Indicator & Switch



FC-D-0404
(TS-MD1 (B))
With Indicator & Switch



FC-D-0405
(TS-MD2 (A))



FC-D-0406
(TS-MD2 (B))



FC-D-0407
(TS-MD3 (A))
With Indicator & Switch



FC-D-0408
(TS-MD3 (B))
With Indicator & Switch



FC-D-0409
(TS-MD5 (A))
With Switch



FC-D-0410
(TS-MD5 (B))
With Switch



FC-D-0411
(TS-MD8 (A))
With Switch



FC-D-0412
(TS-MD8 (B))
With Switch



FC-D-0413
(TS-MD9 (A))
With Switch



FC-D-0414
(TS-MD9 (B))
With Switch



FC-D-0415
(TS-MD10 (A))
With Switch



FC-D-0416
(TS-MD10 (B))
With Switch



FC-D-0417
(TS-MD11 (A))
With Indicator & Switch

PROGRAMMABLE TIMER

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FC-D-0418
(TS-MD11 (B))
With Indicator & Switch



FC-D-0419
(TS-MD12 (A))
With Switch



FC-D-0420
(TS-MD12 (B))
With Switch

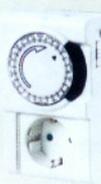
GERMAN STYLE (WEEKLY TIMER)



FC-D-0421
(TS-WD1 (A))
With Indicator & Switch



FC-D-0422
(TS-WD1 (B))
With Indicator & Switch



FC-D-0423
(TS-WD4 (A))
With Switch



FC-D-0424
(TS-WD4 (B))
With Switch



FC-D-0425
(TS-WD5 (A))
With Switch



FC-D-0426
(TS-WD5 (B))
With Switch



FC-D-0427
(TS-MD4 (A))
Outdoor Timer
Water proof:IP44
24 hours programming, 48 ON/OFF program



FC-D-0428
(TS-ED4)
Water proof:IP44
8 Big button for easy operation
24 hours and 7 days programming
8 ON/OFF program, up to 128 program in a week



FC-D-0429
(TS-MD21)
Count Down Timer
Minimum count down time:1 minute
Specifications:30,60,120,180,360,720min
With Indicator & Switch



FC-D-0430
(C.P.-D1)
Creepage Protector



FC-D-0431
(TS-ED1)
Digital Timer
8 Big button for easy operation
24 hours and 7 days programming
8 ON/OFF program, up to 128 program in a week

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FRENCH STYLE (24 HOURS TIMER)

PROGRAMMABLE TIMER



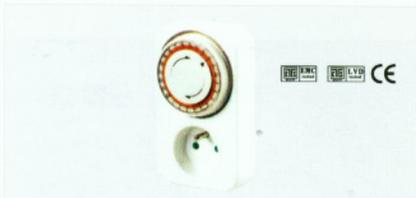
FC-D-0432
(TS-MF1(A))
With Indicator & Switch



FC-D-0433
(TS-MF1(B))
With Indicator & Switch



FC-D-0434
(TS-MF2(A))



FC-D-0435
(TS-MF2(B))



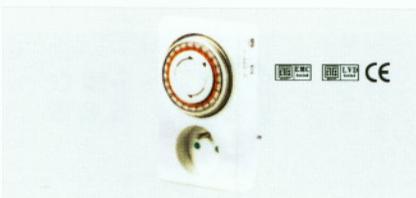
FC-D-0436
(TS-MF3(A))
With Indicator & Switch



FC-D-0437
(TS-MF3(B))
With Indicator & Switch



FC-D-0438
(TS-MF5(A))
With Switch



FC-D-0439
(TS-MF5(B))
With Switch



FC-D-0440
(TS-MF6(A))
With Switch



FC-D-0441
(TS-MF6(B))
With Switch



FC-D-0442
(TS-MF7(A))
With Indicator & Switch



FC-D-0443
(TS-MF7(B))
With Indicator & Switch



FC-D-0444
(TS-MF8(A))
With Switch



FC-D-0445
(TS-MF8(B))
With Switch



FC-D-0446
(TS-MF9(A))
With Switch

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PROGRAMMABLE TIMER



FC-D-0447
 (TS-MF9(B))
 With Switch



FC-D-0448
 (TS-MF10(A))
 With Switch



FC-D-0449
 (TS-MF10(B))
 With Switch

FRENCH STYLE (WEEKLY TIMER)



FC-D-0450
 (TS-WF1(A))
 With Indicator & Switch



FC-D-0451
 (TS-WF1(B))
 With Indicator & Switch



FC-D-0452
 (TS-WF2(A))
 With Switch



FC-D-0453
 (TS-WF2(B))
 With Switch



FC-D-0454
 (TS-WF4(A))
 Outdoor Timer
 Water proof :IP44
 24 hours programming , 48 ON/OFF program



FC-D-0455
 (TS-EF4)
 Water proof :IP44
 8 Big button for easy operation
 24 hours and 7 days programming
 8 ON/OFF program, up to 128 program in a week



FC-D-0456
 (TS-MF21)
 Count Down Timer
 With Indicator & Switch
 Minimum count down time:1 minute
 Specifications:30min,60min,120min,180min,
 360min,720min



FC-D-0457
 (C.P.-F1)
 Creepage Protector



FC-D-0458
 (TS-EF1)
 Digital Timer
 8 Big buttons for easy operation
 24 hour and 7 days programming
 8 ON/OFF program, up to 128 program in a
 week

U.K. STYLE



BS CE

FC-D-0459
(TS-ME1(A))
24 hours programming
48 ON/OFF program
With Indicator & Switch



BS CE

FC-D-0460
(TS-WE1(A))
Weely Timer
7 days programming
42 ON/OFF program
With Indicator & Switch



BS CE

FC-D-0461
(TS-ME4(A))
Outdoor Timer
Water proof :IP44
24 hours programming, 48 ON/OFF program
Outdoor Timer



BS CE

FC-D-0462
(TS-EE4)
Outdoor Timer
Water proof :IP44
8 Big button for easy operation, 24 hours and 7 days programming
8 ON/OFF program, up to 128 program in a week



BS CE

FC-D-0463
(C.P.-E1)
Creepage Protector



BS CE

FC-D-0464
(TS-EE1)
Digital Timer
8 Big button for easy operation, 24 hours and 7 days programming
8 ON/OFF program, up to 128 program in a week

U.S.A STYLE (24 HOURS TIMER/WEEKLY TIMER)



FC-D-0465
(TS-MU2)
24 hours programming, 48 ON/OFF program



FC-D-0466
(TS-MU3)
24 hours programming, 48 ON/OFF program
With Indicator & Switch



FC-D-0467
(TS-MU5)
24 hours programming, 48 ON/OFF program
With Switch



FC-D-0468
(TS-MU8)
24 hours programming, 48 ON/OFF program
With Switch



FC-D-0469
(TS-MU11)
24 hours programming, 48 ON/OFF program
With Switch



FC-D-0470
(TS-MU12)
24 hours programming, 48 ON/OFF program
With Switch



FC-D-0471
(TS-MU13)
24 hours programming, 48 ON/OFF program
With Switch



FC-D-0472
(TS-WU3)
Weekly Timer
With Indicator & Switch

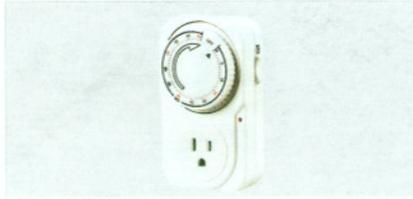


FC-D-0473
(TS-MU4)
Outdoor Timer
24 hours programming
48 ON/OFF program

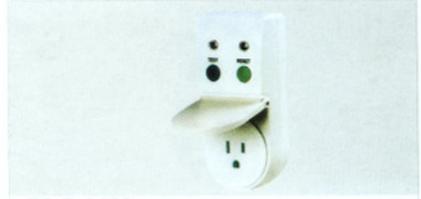
PROGRAMMABLE TIMER



FC-D-0474
(TS-EU4)
Water proof :IP44
8 Big button for easy operation
24 hours and 7 days programming
8 ON/OFF program,up to 128 program in a week



FC-D-0475
(TS-MU21)
Count Down Timer
With Indicator & Switch
Minimum count down time: 1 minute
Specifications:30,60,120,180,360,720min



FC-D-0476
(C.P.-U1)
Creepage Protector

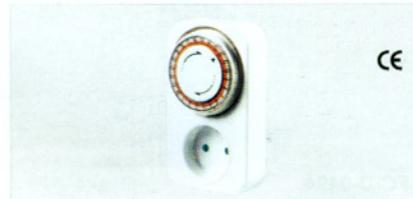


FC-D-0477
(TS-EU1)
Digital Timer
8 Big button for easy operation , 24 hours and
7 days programming
8 ON/OFF program,up to 128 program in a week

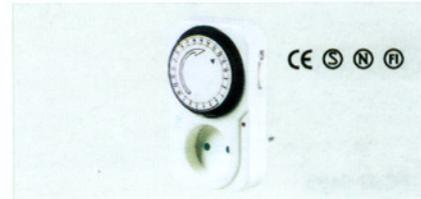
DENMARK STYLE (without earth, 24 HOURS TIMER)



FC-D-0478
(TS-MN1(A))



FC-D-0479
(TS-MN1(B))



FC-D-0480
(TS-MN2(A))
With Indicator & Switch



FC-D-0481
(TS-MN2(B))
With Indicator & Switch



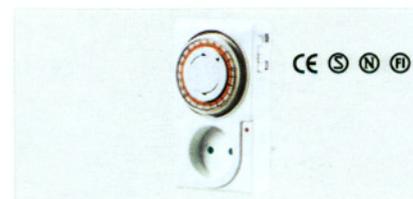
FC-D-0482
(TS-MN3(A))
With Switch



FC-D-0483
(TS-MN3(B))
With Switch



FC-D-0484
(TS-MN4(A))
With Indicator & Switch



FC-D-0485
(TS-MN4(B))
With Indicator & Switch



FC-D-0486
(TS-MN5(A))
With Switch



FC-D-0487
(TS-MN5(B))
With Switch

CE



FC-D-0488
(TS-MN6(A))
With Switch

CE S N R



FC-D-0489
(TS-MN6(B))
With Switch

CE S N R

DENMARK STYLE(without earth, OTHERS)



FC-D-0490
(TS-WN1)
Weekly Timer
7 days programming

CE



FC-D-0491
(TS-WN2)
Weekly Timer
7 days programming
With Switch

CE



FC-D-0492
(TS-WN3)
Weekly Timer
7 days programming
With Indicator & Switch

CE



FC-D-0493
(TS-WN4)
Weekly Timer
7 days programming

CE



FC-D-0494
(TS-MN7(A))
Outdoor Timer
Water Proof:IP44
24 hours programing

CE



FC-D-0495
(TS-EN4)
Digital Timer
Water proof :IP44
8 Big button for easy operation , 24 hours and 7 days programming
8 ON/OFF program,up to 128 program in a week

CE



FC-D-0496
(TS-MF21)
Count Down Timer
Minimum count down time:1 minute
Specifications:30,60,120,180,360,720min
With Indicator & Switch

CE S N R



FC-D-0497
(C.P.-N1)
Creepage Protector

CE



FC-D-0498
(TS-EN1)
Digital Timer
8 Big button for easy operation , 24 hours and 7 days programming
8 ON/OFF program,up to 128 program in a week

CE

DENMARK STYLE(with earth)



FC-D-0499
(TS-MNN2)

CE



FC-D-0500
(TS-MNN3)
With Indicator & Switch

CE



FC-D-0501
(TS-MNN4)

CE

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PROGRAMMABLE TIMER



FC-D-0502
(TS-MNN5)
With Switch



FC-D-0503
(TS-MNN8)
With Indicator & Switch



FC-D-0504
(TS-MNN11)
With Indicator & Switch



FC-D-0505
(TS-MNN12)
With Switch



FC-D-0506
(TS-MNN13)
With Switch



FC-D-0507
(TS-MNN21)
With Indicator & Switch
Specifacation:30',60',120',180',6Hs,12Hs



FC-D-0508
(C.D.-NN1)
Creepage Protector



FC-D-0509
(TS-ENN1)
Digital Timer

ITALY STYLE



FC-D-0510
(TS-MI1)
24 Hours Timer



FC-D-0511
(TS-MI2)
24 Hours Timer
With Indicator & Switch



FC-D-0512
(TS-MI6)
24 Hours Timer
With Indicator & Switch



FC-D-0513
(TS-MI8)
24 Hours Timer
With Switch



FC-D-0514
(TS-WI3(A))
Weekly Timer
7 Days Programming
With Indicator & Switch



FC-D-0515
(TS-MI21)
Count Down Timer
Minimum count down time:1 minute
Specifications:30,60,120,180,360,720min



FC-D-0516
(TS-MI4(A))
Outdoor Timer
Water proof: IP44
24 hours programming, 48 ON/OFF program



FC-D-0517
(TS-EI4)
Outdoor Timer
Water proof: IP44
8 Big button for easy operation, 24 hours and 7 days programming
8 ON/OFF program, up to 128 program in a week



FC-D-0518
(C.P.-I1)
Creepage Protector



FC-D-0519
(TS-EI1)
Digital Timer
8 Big button for easy operation
24 hours and 7 days programming
8 ON/OFF program, up to 128 program in a week

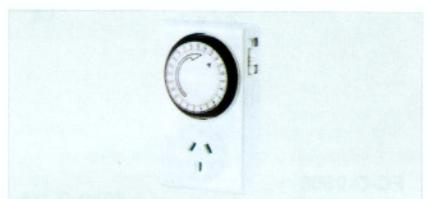
AUSTRALIA & ARGENTINA STYLE



FC-D-0520
(TS-MA2 & TS-MG2)
24 Hours Timer



FC-D-0521
(TS-MA3 & TS-MG3)
24 Hours Timer
With Indicator & Switch



FC-D-0522
(TS-MA5 & TS-MG5)
24 Hours Timer
With Switch



FC-D-0523
(TS-WA2(A) & TS-WG2(A))
Weekly Timer
With Indicator & Switch



FC-D-0524
(TS-MA4(A) & TS-MG4(A))
Outdoor Timer
Water proof: IP44
24 hours programming
48 ON/OFF program



FC-D-0525
(TS-EA4 & TS-EG4)
Outdoor Timer
8 Big button for easy operation
24 hours and 7 days programming
8 ON/OFF program, up to 128 program in a week



FC-D-0526
(TS-MA21 & TS-MG21)
Count Down Timer
Minimum count down time: 1 minute
Specifications: 30, 60, 120, 180, 360, 720min



FC-D-0527
(C.P.-A1 & C.P.-G1)
Creepage Protector



FC-D-0528
(TS-EA1 & TS-EG1)
Digital Timer
8 Big button for easy operation, 24 hours and 7 days programming
8 ON/OFF program, up to 128 program in a week

ISRAEL STYLE



CE

FC-D-0529
(TS-MIS1)



CE

FC-D-0530
(TS-MIS2)
With Indicator & Switch



CE

FC-D-0531
(TS-MIS3)



CE

FC-D-0532
(TS-MIS4)
With Switch



CE

FC-D-0533
(TS-MIS5)
With Switch



CE

FC-D-0534
(TS-MIS6)
With Indicator & Switch



CE

FC-D-0535
(TS-MIS7)
With Switch



CE

FC-D-0536
(TS-MIS8)
With Switch



CE

FC-D-0537
(TS-MIS21)
With Indicator & Switch
Specification:30',60',120',180',6Hs,12Hs



CE

FC-D-0538
(C.P.-IS1)
Creepage Protector



CE

FC-D-0539
(TS-EIS1)
Digital Timer

BRAZIL STYLE



FC-D-0540
(TS-MB2)

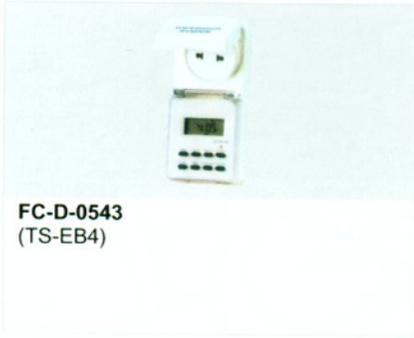


FC-D-0541
(TS-MB1)
With Indicator & Switch



FC-D-0542
(TS-MB4)

PROGRAMMABLE TIMER



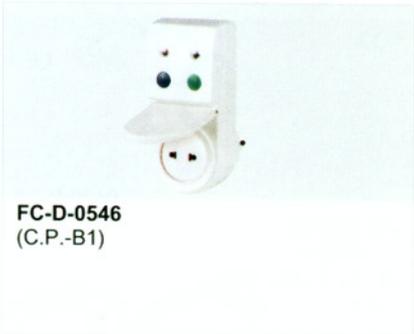
FC-D-0543
(TS-EB4)



FC-D-0544
(TS-EB1)



FC-D-0545
(TS-MB21)
With Indicator & Switch

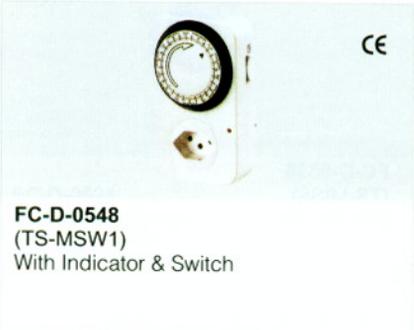


FC-D-0546
(C.P.-B1)

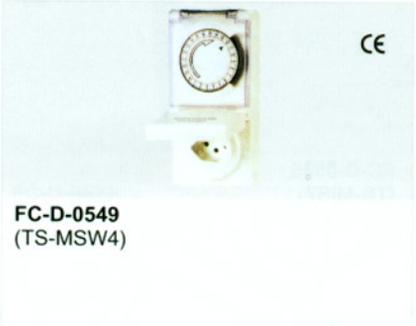
SWIZERLAND STYLE



FC-D-0547
(TS-MSW3)
With Indicator & Switch



FC-D-0548
(TS-MSW1)
With Indicator & Switch



FC-D-0549
(TS-MSW4)



FC-D-0550
(TS-ESW4)



FC-D-0551
(TS-ESW1)



FC-D-0552
(TS-MSW21)
With Indicator & Switch



FC-D-0553
(C.P.-SW1)

TIMER PARTS-Mechanism (C-D-0554)



Mechanism (A)



Mechanism (B)



Mechanism (C)



Mechanism (D)



Mechanism (W)

TIMER PACKAGE TYPE (C-D-0555)



Double Blister A



Double Blister B



Double Blister C



Double Blister D



Color Box A



Color Box B

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