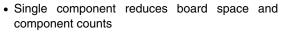
Vishay Dale



Thick Film, Rectangular, Resistor/Capacitor Chip



FEATURES





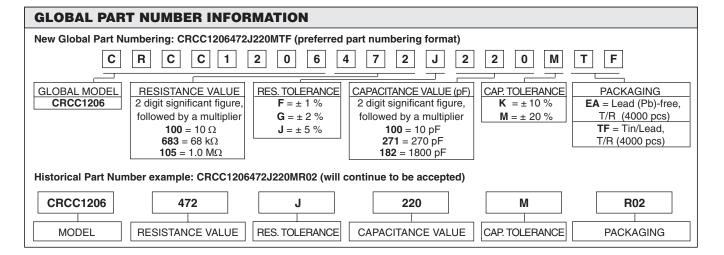
- Choice of Dielectric Characteristics X7R or Y5U
- Wrap around termination
- Thick film Resistor/Capacitor element
- Inner electrode protection
- Flow & Reflow solderable
- · Automatic placement capability, standard size

STANDARD ELECTRICAL SPECIFICATIONS											
	SIZE		RESISTOR			CAPACITOR					
GLOBAL MODEL	INCH	METRIC	POWER RATING P _{70°C} W	TEMPERATURE COEFFICIENT ppm/°C	TOL %	VALUE RANGE Ω	DIELECTRIC	TEMPERATURE COEFFICIENT %	TOL.	VOLTAGE RATING VDC	VALUE RANGE pF
CRCC1206	1206	3216	0.125	200	5	10R - 1M0	X7R	± 15	20	50	10 - 270
CRCC1206	1206	3216	0.125	200	5	10R - 1M0	Y5U	+ 22, - 56	20	50	270 - 1800
RESISTOR • Operating Temperature Range: - 55 °C to + 125 °C • Technology: thick film						CAPACITOR • Operating Temperature Range: X7R - 55 °C to + 125 °C Y5U - 30 °C to + 85 °C • Maximum Dissipation Factor: 2.5 %					

Notes

- · Packaging: see appropriate catalog or web page
- Power rating depends on the maximum temperature at the solder point, the component placement density and the substrate material

TECHNICAL SPECIFICATIONS							
PARAMETER	UNIT	RESISTOR	X7R CAPACITOR	Y5U CAPACITOR			
Rated Dissipation at 70 °C	W	0.125	_	-			
Capacitor Voltage Rating	V	-	50	50			
Dielectric Withstanding Voltage (5 seconds, 50mA Charge)	V _{dc}	-	125	125			
Category Temperature Range	°C	- 55/+ 155	- 55/+ 125	- 30/+ 85			
Insulation Resistance	Ω	> 10 ¹⁰	> 10 ¹⁰	> 10 ¹⁰			
Weight/1000 pieces	g	0.65	2	5.5			



For technical questions, contact: <u>ff2aresistors@vishay.com</u>

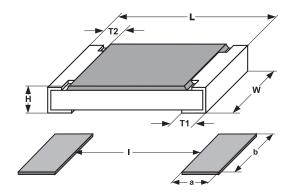
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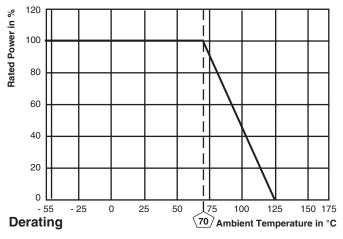
Thick Film, Rectangular, Resistor/Capacitor Chip

DIMENSIONS



,	SIZE	DIMENSIONS [in millimeters]						
INCH METRIC		L	W	Н	T1	T2		
1206	3216	3.2 ± 0.15	1.6 ± 0.15	0.55 ± 0.15	0.5 ± 0.25	0.5 ± 0.25		

	SIZE	SOLDER PAD DIMENSIONS [in millimeters]							
	SIZE		W SOL	DERING	WAVE SOLDERING				
INCH	METRIC	а	b	I	а	b	I		
1206	3216	0.9	1.7	2.0	1.1	1.7	2.2		



SCHEMATIC



PERFORMANCE						
TEST	CONDITIONS OF TEST	TEST RESULTS				
1231	CONDITIONS OF TEST	R	С			
Endurance Test at 70 °C dIL-Std-202 Method 108 1000 hours at 70 °C, 1.5 hours "ON", 0.5 hours "OFF"		± (5 % + 2 Ω)	± 20 %			
Dielectric Withstanding Voltage MIL-Std-202 Method 301	125 V _{dc} , 5 seconds, 50 mA charge	no physical damage				
Thermal Shock MIL-Std-202 Method 107	100 cycles, - 55 to + 125 °C	± (5 % + 2 Ω)	± 20 %			
Moisture MIL-Std-202 Method 106	Omit steps 7A and B	± (5 % + 2 Ω)	± 20 %			
Resistance to Soldering Heat EIA 575	10 seconds at 260 °C solder bath temperature	± (5 % + 2 Ω)	± 20 %			
High Temperature Exposure EIA 575	125 °C for 100 hours	± (5 % + 2 Ω)	± 20 %			
Low Temperature Operation EIA 575	1 hour at - 55 °C then 45 minutes at 50 V	± (5 % + 2 Ω)	± 20 %			
Solderability & Leaching EIA 575 3.12	Condition C 95 % Covera		overage			

APPLICABLE SPECIFICATIONS

- · IPC Standards
- EIA 575

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