# 0 ICOM

# HAM RADIO PRODUCTS

**HF** Transceivers







## HF/50MHz ALL MODE TRANSCEIVER

32-bit Floating-Point DSP with 24-bit AD/DA converter

51 types of passband width, soft and sharp filter shapes

Baudot RTTY demodulator/decoder Sharp and soft filter shapes

Select an appropriate filter shape, depending on your operating style or band conditions. Independent SSB and CW Filters give you the flexibility you want while listening to the signal.





## HF/50MHz/144MHz ALL MODE TRANSCEIVERS

32-bit DSP with 24-bit AD/DA converter

51 types of passband width, soft and sharp filter shapes

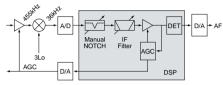
100W output on all HF, 50MHz and 144MHz bands

### 32-bit DSP technology

The IC-746PRO/7400 has employed a 32bit DSP and a 24-bit AD/DA converter. The DSP with its extremely high performance, dramatically improves signal resolution. The dynamic range of the AD/DA converter is a wide 144dB\*, for superior signal management. Clear signals without distortion are realized in any signal conditions. \* Theoretical value at digital operation stage.

### AGC Loop Management

The digital IF filter, manual notch filter etc. are adopted in the AGC loop, and controlled by the DSP. This system removes blocking by extremely strong adjacent signals in out of filter passbands. Even very weak signals between crowded strong signals can be clearly extracted from the noise!



#### **Real Time Spectrum Scope**

The real time spectrum scope clearly shows band activity with relative strengths of the signals around a center frequency on the 5-inch TFT color display.

### **Other Outstanding Features**

• Dual watch function • Flexible AGC time constants • High stability crystal unit standard • Microphone equalizer • RF speech compressor • Manual notch • Digital twin PBT • Digital voice memories • Digital noise reduction • Analog and digital meters • 8 screens and 7 fonts

#### **IF Filter Shapes**

You will never have to purchase optional filters, with over 51 different filter widths, just dial in the width you want. Then select whether you want a sharp or soft filter shape for SSB and CW modes.

#### **RTTY Demodulator and Decoder**

The built-in RTTY demodulator and decoder reads baudot RTTY signals on the screen without turning on your PC or other gear. The RTTY tuning indica-

tor helps critical tuning. The Twin Peak filter removes interfering QRM giving you a more accurate decoded message.



### **Other Outstanding Features**

• Large, multi-function LCD • Digital twin PBT • DSP controlled AGC loop • 108 DTCS and 50 CTCSS codes standard • Built-in Automatic antenna tuner • Memopad • 4 channels memory keyer with 50 characters • FM narrow capability • Triple band stacking register • Quick split • VSC function • Optional voice synthesizer

## **HF** Transceivers



## HF ALL BAND TRANSCEIVER

Simple, straight forward operation with keypad

General coverage receive with superior performance

**Optional DSP capability** 

### **Simple operation**

The IC-718 is equipped with a minimum number of buttons and controls for superior feature selectability. The 10-key pad on the front panel allows direct entry of an operating frequency, or a memory channel number. The auto tuning step function is activated when turning the dial quickly and helps quick tuning . The band stacking register is convenient when changing operating bands.



## HF/50MHz/144MHz/430(440)MHz ALL MODE TRANSCEIVER

Covers all HF, 6m, 2m and 70cm bands

Clean, stable and powerful output power

Built-in DSP capability (Optional depending on version) HF to 70cm band coverage with 100W\* output

The IC-706MKIIG covers from the HF band to the 70cm band. Of course, all mode operation (SSB, CW, RTTY, AM and FM) is possible and a full 100W of output power is available for HF and 6m operation; 50W for 2m and 20W for 70cm operation.

(\* HF, 50MHz band only)

### Front mounted loud speaker

The IC-718 has the speaker mounted on the front panel. With the speaker facing the operator, audio sounds can be clearly heard without impediment during operation.

### Optional DSP capability, UT-106

The DSP capability gives you superior receive quality in your shack, vehicle or during a DX'pedition.



▲ Optional UT-106

#### General coverage receiver

The IC-718 has 0.03–29.999999MHz\* general coverage receive capability. \*Guaranteed range: 0.5–29.999999 MHz

### **Other Outstanding Features**

 Built-in electronic keyer
 Combined squelch and RF gain control
 101 memory channels
 CW full break-in
 Built-in microphone compressor
 Preamplifier and attenuator
 IF shift interference rejection
 1Hz tuning
 Digital S/RF meter
 VOX function for hands-free operation
 Optional automatic antenna tuners

#### Optional automatic antenna tuners

#### **DSP** features

DSP capabilities are available\*. These include noise reduction and auto notch functions. Superior receive quality in your shack, vehicle or during DX'peditions. \* UT-106 DSP unit required for some versions.

#### Compact with detachable panel

With an optional separation cable, OPC-581/OPC-587, the detachable front panel allows easy installation in your shack or in a wide variety of mobile applications.

#### High stability transmitter

MOS-FET power amplifiers in the PA unit provide stable, high quality output with low IMD and low spurious emissions even during full duty cycle and extended operation.

#### **Other Outstanding Features**

Built-in tone squelch functions • Automatic repeater function • Simple band scope function • Narrow FM capability • Up to 3 selectable passband widths with optional filters
Built-in electronic keyer • IF shift interference rejection • Continuously adjustable RF output • Adjustable SSB carrier point
Optional automatic antenna tuner

## Portable Transceiver



### HF/50MHz ALL MODE TRANSCEIVER IC-703

Built-in automatic antenna tuner for portable operation

Optional multi-bag, battery pack for field use

**Built-in DSP Capabilities** (Optional depending on version) Optional LC-156

Built-in automatic antenna tuner

The built-in antenna tuner unit covers from 1.8MHz to 54MHz. Ideal for moving about during portable operation! Latch relays used in the antenna tuner greatly reduce the Built-in antenna tuner power consumption.



Maximum portable convenience The IC-703 is designed for outdoor, portable operation. The optional battery pack, BP-228 provides 5W output power\* and 7 hours\* operating time. All the necessary equipment including an antenna, can be packed in the optional multi-bag LC-156. \* 2W on AM mode. Tx:Rx:Stand-by=0.5:0.5:9 in SSB mode.

### **DSP** Capabilities

The built-in DSP unit provides noise reduction and auto notch functions. \* UT-106 DSP unit required for some versions.

### **Other Features**

• Standard ±0.5ppm high stability TCXO • Detachable controller with optional separation cables, OPC-581/OPC-587 • Front and rear microphone jacks • RIT, VOX, noise blanker and speech compressor standard • 9600bps data terminal • 3channel memory keyer • RTTY (FSK) mode available • Key backlighting

## All Mode Transceiver



**VHF/UHF ALL MODE TRANSCEIVER** IC-910H

100W output on 144MHz band & 75W output on 430MHz band

Ready-to-install optional 1200MHz band unit, UX-910

**Excellent support for satellite** mode and PACKET operation



100W of stable output power

A powerful 100W\* of output power is provided by the power amplifier circuit. The combination of the aluminum die-cast chassis and efficient cooling fan ensures stable output for continuous operation.

\* 75W on 430MHz band and 10W on 1200MHz band

Ready-to-install 1200MHz Band Unit By installing the optional UX-910 1200MHz Band Unit, the IC-910H becomes an all mode tri-band transceiver. Enjoy cross band and full duplex operation.

### AO-40 satellite communication

The optional AG-2400 converts a 2.4GHz satellite downlink signal to a 144MHz signal.

Coupled with the satellite mode of the IC-910H. the US mode and LS (UX-910 required) mode satellite operation is ready for use.



Optional AG-2400

### **Other Outstanding Features**

• Continuously adjustable Tx output power • Excellent 0.11µV sensitivity (at 10dB S/N on SSB, CW mode) • Sweep function • IF shift function • Up to 2 optional DSP units • FMnarrow mode receivable . CTCSS tone encoder/decoder • 9600bps PACKET capability • Memory pad function • Up to 2 optional CW narrow filters

## Mobile Transceivers



DUAL BAND FM TRANSCEIVERS

V/V, U/U simultaneous receive capability

Wideband receiver (Depending on version)

Flexible installation with compact remote controller

### **Other Features**

Combination brackets, MB-85 or controller bracket, MB-84 with 3.5m (11.5ft) separation cable is supplied as standard depending on version • Total 212 memory channels • Built-in CTCSS, DTCS tones • 9600bps packet data terminal • Sub band auto mute function
 14 DTMF memory channels • Weather alert\* • Auto repeater function\*



# VHF/UHF FM TRANSCEIVERS

Powerful output power 55W/50W (VHF/UHF)

Wideband receiver (Depending on version)

Compact, detachable front panel with separation cable

### **Other Features**

144 and 430 (440) MHz dual bander
Total 512 alphanumeric memory channels with 10 memory banks • Easy to manage bank link scan system
Amber, green and yellow, triple color LCD illumination • CTCSS, DTCS encoder/decoder • Pocket beep and tone scan • 16 DTMF memory channels • 9600bps packet data terminal





Unbeatable 75W output power with efficient cooling fan

Remote control microphone, HM-133V

Total 200 memory channels with 10 memory banks

### **Other Features**

Front mounted speaker • Amber and green backlit LCD • Built-in CTCSS and DTCS tones • Pocket beep and tone scan • Rugged construction
Standard DTMF encoder • Optional DTMF decoder, UT-108 • Weather channel with weather alert\* • FM narrow switchable capability\*
(\* Depending on version)





55W stable output power (50W depending on version)

Superior receiver IMD characteristics with squelch attenuator

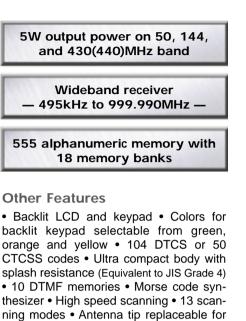
Total 113 memory channels with alphanumeric names

### **Other Features**

Commercial grade durable, rugged construction
 Large, easy-to-read LCD
 Switch labels displayed on LCD
 Amber and green LCD illumination
 Built-in tone squelch, pocket beep and tone scan
 16 digit DTMF code
 FM narrow switchable capability\*
 Optional PC cloning capabilities
 \*Europe and Italy versions only

## Handheld Transceivers





50MHz band • PC Programmable VHF/UHF MULTIBAND FM TRANSCEIVERS IC-T90A IC-E90



\* Depending on version.



6W powerful output for both 144 and 430(440) MHz bands\*

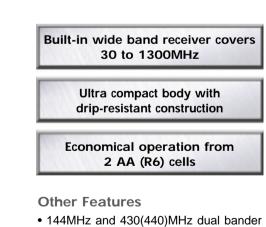
> MIL standard durable construction

Built-in tone squelch with tone scan and pocket beep functions

### **Other Features**

• Large, easy-to-push PTT switch • 50 CTCSS tone encoder/decoder with pocket beep and tone scan functions • Optional HM-75A, microphone for simple remote control • Thumb-touch lock switch • Channel indication • 9 DTMF memories with up to 16 digits each • Auto power saver with selectable duty \* Typical; with 13.5V DC.





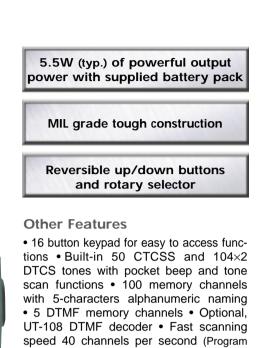
144MHZ and 430(440)/MHZ dual bander
 Tone squelch with tone scan function
 Large, 36 (d) mm speaker emits crisp clear audio
 Simplified operation
 RIT function
 LCD backlight with timer
 200 memory channels
 Digital squelch system
 50 CTCSS tones
 Additional WFM and AM receive modes
 Automatic repeater function\* (\* Depending on version)





## Handheld Transceivers

AIL-STD 810



144MHz FM TRANSCEIVERS

scan only)



6W (typ) of powerful output power with supplied battery pack Commercial grade durable construction Easy operation with customizable keys

### **Other Features**

• Built-in tone squelch with pocket beep and tone scan functions • 40 memory channels • DTMF encoder with 5 memory channels • Handheld-to-handheld cloning capability • 2-step power saver • Optional computer programming capability with optional CS-T2 and OPC-478 • Optional HM-75A microphone provides simple remote control function

144MHz FM TRANSCEIVER



Compact size easily fits in your hand

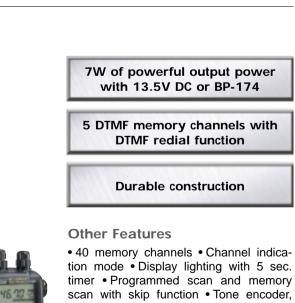
Alphanumeric memory channels

5 transmit and 5 receive alphanumeric message memories

### **Other Features**

 Selectable 40 memory channels with 6character alphanumeric name or 80 memory channels without memory name
 MOS-FET power module • Log memory and repeater memory • 50 CTCSS tone encoder\* • Numerous scan functions
 Optional microphone allows simple remote control function with HM-75A (\* Optional for Europe and Italy versions)





tone scan pocket beep and tone squelch
Monitor function to receive a repeater input frequency
External DC power jack
Optional pager and code squelch function



### **OPTIONS FOR DESKTOP & PORTABLE TRANSCEIVERS**

	HAN	ID MICROPHO	NES	DESKTOP MI	CROPHONES		EXTERNAL	SPEAKERS	
MODEL NAME	HM-12	HM-36	HM-103	SM-6	SM-20	SP-7	SP-10	SP-20	SP-21
	•	•	0						
IC-756PROII		<b>v</b>		<b>v</b>	<b>v</b>	~		<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
IC-746PRO, IC-7400		~		<ul> <li>✓</li> </ul>	~	~		~	~
IC-718		<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	~		<ul> <li>✓</li> </ul>	~
IC-706MKIIG			<ul> <li>✓</li> </ul>	(Use with OPC-589)	(Use with OPC-589)	~	~		
IC-703			<b>v</b>	(Use with OPC-589)	(Use with OPC-589)	~	~		
IC-910H	<b>v</b>			<ul> <li>✓</li> </ul>	<b>v</b>	~		<ul> <li>✓</li> </ul>	<b>v</b>

	DC POWER SUPPLY	LINEAR AMPLIFIER	ANTENNA ELEMENT	ANTENNA	TUNERS	FOLDED DIPOLE ANTENNA		FILTERS	
MODEL NAME	PS-125 13.8V/25A	IC-PW1 Not available for EU countries	AH-2b 2.5m (8.2ft) an- tenna element.	AH-4	AT-180	AH-710	FL-100 500Hz/-6dB FL-101 250Hz/-6dB FL-103 2.8kHz/-6dB FL-223 1.9kHz/-6dB FL-232 350Hz/-6dB	FL-52A 500Hz/-6dB FL-53A 250Hz/-6dB FL-222 1.8kHz/-6dB FL-257 3.3kHz/-6dB	FL-132 500Hz/-6dB (for Main band) FL-133 500Hz/-6dB (for Sub band)
IC-756PROII	~	~	~	~		<ul> <li>✓</li> </ul>			
IC-746PRO, IC-7400	~	~	~	~		<ul> <li>✓</li> </ul>			
IC-718	~	(Use with OPC-599)	~	~	~	<ul> <li>✓</li> </ul>		(One of these filters)	
IC-706MKIIG	~	(Use with OPC-599)	~	~	~	~	(Up to two filters)		
IC-703	(Use with OPC-1248)		~	~	<b>v</b>			(One of these filters)	
IC-910H	~								~

	HIGH STA	BILITY CRYST	AL UNITS	VOICE SYNTHESIZER	DSP UNIT	<b>CI-V CONVERTER</b>	MULTI-BAG	BATTERY PACK	
MODEL NAME	CR-282 Frequency sta- bility: ±0.5ppm	CR-293 Frequency sta- bility: ±0.5ppm	CR-338 Frequency sta- bility: ±0.5ppm	UT-102	UT-106	CT-17	LC-156	BP-228 9.6V/2800mAh (Ni-Cd)	
IC-756PROII			(CR-338 installed)	<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>			
IC-746PRO, IC-7400			~	~		<ul> <li>✓</li> </ul>			
IC-718			<b>v</b>	<b>v</b>	~	<ul> <li>✓</li> </ul>			
IC-706MKIIG	~			~	(Installed depnding on version)	~			
IC-703				<b>v</b>	(Installed depnding on version)	<ul> <li>✓</li> </ul>	<b>v</b>	<b>v</b>	
IC-910H		<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>	(Up to two units)	<ul> <li>✓</li> </ul>			

	CARRYING	HANDLES	MOBILE MOUNT	TING BRACKETS	CONTROLLER BRACKET	MOUNTING BASES	DC POWE	R CABLES	SEPARATION CABLES
MODEL NAME	MB-23	MB-72	IC-MB5	MB-62	MB-63	MB-65	OPC-025A 20A cable OPC-025D 30A cable OPC-1229 4A cable	OPC-639 20A cable with Noise Filter	OPC-581 3.5m;11.5ft OPC-587 5.0m;16.4ft
IC-756PROII							(Use OPC-025D)		
IC-746PRO, IC-7400							(Use OPC-025D)		
IC-718	<b>v</b>		<b>v</b>				(Use OPC-025A)		
IC-706MKIIG		<ul> <li>✓</li> </ul>		~	~	(Use with MB-63)	(Use OPC-025D)	(Europe Version)	<b>~</b>
IC-703		<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>	<b>~</b>	(Use with MB-63)	(Use OPC-1229)		<ul> <li>✓</li> </ul>
IC-910H	~		~				(Use OPC-025D)		

: Applicable

### **OPTIONS FOR DESKTOP & PORTABLE TRANSCEIVERS**

	MIC ADAPTER CABLE	ADAPTER CABLE	ACC 13-PIN CABLE	POWER SUPPLY ADAPTER	1200MHz BAND UNIT	WATERP	ROOF PREAM	PLIFIERS	DOWN CONVERTER
MODEL NAME	OPC-589	OPC-599 13-pin ACC socket to 7-, 8- pin ACC sockets	OPC-742 Connection cable between IC-706MKIIG and AT-180 with 2m/70cm linear amplifier.	OPC-1248 Connection cable between IC-703 and PS-125.	UX-910	AG-25 144MHz. Not available for EU countries	AG-35 430MHz. Not available for EU countries	AG-1200 1200MHz. Not available for EU countries	AG-2400 Converts 2400– 2402MHz to 144 –146MHz.
IC-756PROII									
IC-746PRO, IC-7400									
IC-718		<ul> <li>✓</li> </ul>							
IC-706MKIIG	~	~	~						
IC-703	<b>v</b>	~		<b>v</b>					
IC-910H					~	~	~	(Use with UX-910)	~

### **OPTIONS FOR MOBILE TRANSCEIVERS**

		HAND MICE	ROPHONES		MOBILE BRACKET	CONTROLLE	R BRACKETS	MOUNTING BASE	COMBINATION BRACKET
MODEL NAME	HM-95 w/DTMF keypad	HM-118N	HM-118TN w/DTMF keypad	HM-133/S/V w/DTMF keypad	MB-17A	MB-58	MB-84	MB-65	MB-85
	0	6	8	6				-	
IC-2720H, IC-2725E		~	<b>~</b>	(Use HM-133)	~		~	(Use with MB-84)	~
IC-208H, IC-E208		~	~	(Use HM-133)	~	<ul> <li>✓</li> </ul>		(Use with MB-58)	
IC-V8000	<ul> <li>✓</li> </ul>	>	<ul> <li>✓</li> </ul>	(Use HM-133V)					
IC-2100H	~	~	~	(Use HM-133S)	>				

	SEPARATIO	ON CABLES	DC POWER CABLES	SPEAKER CABLE	MIC EXT. CABLES	MIC ADAPTER CABLE	EXTERNAL	SPEAKERS	DTMF DECODER UNIT
MODEL NAME	OPC-600/R 3.5m: 11.5ft OPC-601/R 7.0m: 23ft	OPC-1156 3.5m: 11.5ft with modular cable	OPC-347 7.0m: 23ft OPC-1132 3.0m: 9.8ft	<b>OPC-441</b> 5.0m: 16.4ft	<b>OPC-440</b> 5.0m: 16.4ft <b>OPC-647</b> 2.5m: 8.2ft	OPC-589	SP-7	SP-10	UT-108
	?		B	Q	Q	er or			
IC-2720H, IC-2725E		~	~	~	~	~	~	~	
IC-208H, IC-E208	<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	~	
IC-V8000			<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
IC-2100H			<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	~	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	~	

	CI	ONING CABL	ES	CLONING SOFTWARE			
MODEL NAME	OPC-474 Between trans- ceivers	OPC-478 Transceiver to PC RS-232C cable	OPC-478U Transceiver to PC USB cable	CS-208 CS-2100 CS-2720 CS-V8000			
IC-2720H, IC-2725E	<b>v</b>	<b>~</b>	<b>v</b>	(Use CS-2720)			
IC-208H, IC-E208	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	(Use CS-208)			
IC-V8000	<b>v</b>	<b>v</b>		(Use CS-V8000)			
IC-2100H	<b>v</b>	~		(Use CS-2100)			



### **OPTIONS FOR HANDHELD TRANSCEIVERS**

		B	ATTERY CASE	S			BATTER	RY PACKS	
MODEL NAME	<b>BP-130A</b> AA(R6)×6 cells	BP-170 AA(R6)×4 cells	BP-194 AA(R6)×8 cells	BP-208 AA(R6)×6 cells	BP-216 AA(R6)×2 cells	<b>BP-157A</b> 7.2V/900mAh (Ni-Cd)	<b>BP-160</b> 7.2V/700mAh (Ni-Cd)	<b>BP-171</b> 4.8V/700mAh (Ni-Cd)	<b>BP-172</b> 4.8V/950mAh (Ni-Cd)
		a Area							
IC-T90A, IC-E90					<ul> <li>✓</li> </ul>				
IC-W32A/E		<ul> <li>✓</li> </ul>						<ul> <li>✓</li> </ul>	~
IC-T7H		~						<ul> <li>✓</li> </ul>	~
IC-Q7A									
IC-V8, IC-T3H				<ul> <li>✓</li> </ul>					
IC-T2H			<ul> <li>✓</li> </ul>						
IC-T22A/E		<ul> <li>✓</li> </ul>						<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
IC-2GXAT	<ul> <li>✓</li> </ul>					<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>		

				B	ATTERY PACK	(S			
MODEL NAME	BP-173 9.6V/650mAh (Ni-Cd)	BP-174 12.0V/600mAh (Ni-Cd)	BP-180 7.2V/600mAh (Ni-Cd)	BP-195 9.6V/700mAh (Ni-Cd)	BP-196 9.6V/1050mAh (Ni-Cd)	BP-209 7.2V/1100mAh (Ni-Cd)	BP-210 7.2V/1650mAh (Ni-MH)	BP-217 7.4V/1300mAh (Li-Ion)	BP-222 7.2V/600mAh (Ni-Cd)
				8823			- 120		
IC-T90A, IC-E90								<ul> <li>✓</li> </ul>	
IC-W32A/E	<ul> <li>✓</li> </ul>		~						
IC-T7H	<ul> <li>✓</li> </ul>		~						
IC-Q7A									
IC-V8, IC-T3H						~	~		~
IC-T2H				<ul> <li>✓</li> </ul>	~				
IC-T22A/E	~		~						
IC-2GXAT		<ul> <li>✓</li> </ul>							

	WALL CHARGER			DES	KTOP CHARG	ERS			
MODEL NAME	BC-110A/D/V /AR/DR 12V/200mA	BC-119N Rapid charger	BC-127 Ni-Cd CHARGER Includes 2 Ni-Cd	BC-133 Regular charger	<b>BC-139</b> Rapid charger Includes AC adapter.	BC-143 Rapid charger Includes AC adapter.	BC-144 Rapid charger	BC-146 Regular charger	
		-22r	cells.			Part -			
IC-T90A, IC-E90	<ul> <li>✓</li> </ul>				~				
IC-W32A/E	~	(Use with AD-51+AD-75+BC-145)							
IC-T7H	<ul> <li>✓</li> </ul>	(Use with AD-56+AD-75+BC-145)							
IC-Q7A			<b>v</b>						
IC-V8, IC-T3H	<ul> <li>✓</li> </ul>	(Use with AD-94+BC-145)					(Use with BC-145)	(Use with BC-147)	
IC-T2H	<b>v</b>	(Use with AD-81+BC-145)		(Use with BC-122)		<b>v</b>			
IC-T22A/E	<ul> <li>✓</li> </ul>	(Use with AD-56+AD-75+BC-145)							
IC-2GXAT	<ul> <li>✓</li> </ul>								

### **OPTIONS FOR HANDHELD TRANSCEIVERS**

		AC ADAPTERS	6		CHA	ARGER ADAPT	ERS		
MODEL NAME	<b>BC-122</b> 12V/200mA	<b>BC-145</b> 16V/1A	<b>BC-147</b> 12V/200mA	AD-51	AD-56	AD-75	AD-81	AD-94	
	98	<b>9</b>							
IC-T90A, IC-E90									
IC-W32A/E		(Use with BC-119N)		(Use with AD-75 + BC-119N)		(Use with AD-51 + BC-119N)			
IC-T7H		(Use with BC-119N)			(Use with AD-75 + BC-119N)	(Use with AD-56 + BC-119N)			
IC-Q7A									
IC-V8, IC-T3H		(Use with BC-144 or BC-119N)	(Use with BC-146)					(Use with BC-119N)	
IC-T2H	(Use with BC-133)	(Use with BC-143 or BC-119N)					(Use with BC-119N)		
IC-T22A/E		(Use with BC-119N)			(Use with AD-75 + BC-119N)	(Use with AD-56 + BC-119N)			
IC-2GXAT/ET									

	CIGARETTE LIC	GHTER CABLES	DC POWER CABLE	SPEAKER-MICROPHONES				HEAD	HEADSETS	
MODEL NAME	CP-12L w/noise filter	CP-19 w/DC-DC con- verter	OPC-254L	HM-46/L	нм-54	нм-75А	HM-131/L	HS-51 5.0V type.	HS-85 3.3V type.	
IC-T90A, IC-E90		<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>	
IC-W32A/E	<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>		~	
IC-T7H	<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<b>v</b>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>		~	
IC-Q7A				(Use with OPC-782)	(Use with OPC-782)	(Use with OPC-782)	(Use with OPC-782)		(Use with OPC-782)	
IC-V8, IC-T3H				<b>~</b>	~	~	~	~		
IC-T2H	<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	~		
IC-T22A/E	<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>	<b>v</b>	<b>v</b>	<b>v</b>	<ul> <li>✓</li> </ul>		<ul> <li>✓</li> </ul>	
IC-2GXAT/ET				<b>~</b>	<b>~</b>	<b>v</b>	<b>v</b>	<ul> <li>✓</li> </ul>		

	EARPHONE	ADAPTER CABLE	ANTENNA ADAPTER	MOUTING BRACKET		BELT CLIPS				
MODEL NAME	SP-13	OPC-782	AD-92SMA	MB-30	MB-68	MB-74 Aligator type.	MB-83 Swivel type.	MB-87 Swivel type.		
	og "		J.	1						
IC-T90A, IC-E90	<ul> <li>✓</li> </ul>		~				<ul> <li>✓</li> </ul>			
IC-W32A/E	<ul> <li>✓</li> </ul>			~						
IC-T7H	<ul> <li>✓</li> </ul>			~						
IC-Q7A	(Use with OPC-782)	~	~							
IC-V8, IC-T3H	<ul> <li>✓</li> </ul>				~	~		<ul> <li>✓</li> </ul>		
IC-T2H	~				~	~		~		
IC-T22A/E	<ul> <li>✓</li> </ul>			~						
IC-2GXAT/ET	<ul> <li>✓</li> </ul>									

: Applicable

### **OPTIONS FOR HANDHELD TRANSCEIVERS**

		CARRYING CASES						ELCH UNITS	DTMF DECODER UNIT
MODEL NAME	LC-128	LC-136	LC-137	LC-145	LC-146A	LC-152A	UT-86	UT-94	UT-108
	Distant Distant Observe	1111				0	The strength		
IC-T90A, IC-E90						~			
IC-W32A/E	<b>~</b>								
IC-T7H		(Use with BP-170/171/172)	(Use with BP-173/BP-180)						
IC-Q7A					<b>v</b>				
IC-V8, IC-T3H									<ul> <li>✓</li> </ul>
IC-T2H				>					
IC-T22A/E								<b>v</b>	
IC-2GXAT							~		

	CLONING	CABLES	CLONING SOFTWARE	ANTENNAS			
MODEL NAME	OPC-474 Between transceivers.	OPC-478 Transceiver to PC RS-232C cable	CS-T2 CS-T7 CS-T90A CS-V8 CS-V8 CS-W32	FA-1443B FA-B2C FA-B2D FA-B2E FA-B270C FA-B270D FA-S270D FA-S6270D			
IC-T90A, IC-E90	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	(Use CS-T90A)	(Use FA-S6270D)			
IC-W32A/E	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	(Use CS-W32)	(Use FA-B270C/D)			
IC-T7H	<ul> <li>✓</li> </ul>	~	(Use CS-T7)	(Use FA-1443B/B270C)			
IC-Q7A				(Use FA-S270C)			
IC-V8, IC-T3H	<ul> <li>✓</li> </ul>	<b>~</b>	(Use CS-V8)	(Use FA-B2E)			
IC-T2H	<ul> <li>✓</li> </ul>	~	(Use CS-T2)	(Use FA-B2C)			
IC-T22A/E				(Use FA-B2E)			
IC-2GXAT				(Use FA-B2D)			

### **SPECIFICATIONS**

### **DESKTOP TRANSCEIVERS**

		IC-756PROII	IC-746PRO IC-7400	IC-718	
	Frequency coverage (Differs according to version)	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60MHz Guaranteed range 0.5–29.999MHz and 50–54MHz.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50, 144MHz bands Rx: 30KHz–60MHz and 108–174MHz Guaranteed range 0.5–29.995, 50–54MHz and 144MHz band.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28MHz bands Rx: 30kHz–29.999MHz Guaranteed range 0.5–29.999MHz.	
-	Modes	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, RTTY, AM	
General	Frequency stability	±0.5ppm (–10°C to +50°C; +14°F to +122°F )	±7ppm (From 1 min. to 60 min. after power ON at 25°C; +77°F)	±200Hz/hr. (1hr. after power ON at 25°C; +77°F)	
0	Maximum current drain	23A at 13.8V DC	23A at 13.8V DC	20A at 13.8V DC	
	Power supply requirement	13.8V DC ±15%	13.8V DC ±15%	13.8V DC ±15%	
	Antenna connector	SO-239 × 2 + phono [(RCA) 50Ω]	$SO\text{-}239\times3$ (2 for HF/50MHz and 1 for 144MHz bands; 50 $\Omega)$	SO-239 (50Ω)	
	Number of memory channels	101 (99 regular + 2 scan edges)	102 (99 regular + 2 scan edges and 1 call)	101 (99 regular + 2 scan edges)	
	Dimensions (W×H×D) ; Projections are not included.	340×111×285mm; 13¾×4¾×117⁄32in	287×120×316.5mm; 115⁄16×4 <sup>23</sup> ⁄32×12 <sup>15</sup> ⁄32in	240×95×239mm; 9 <sup>7</sup> /16×3 <sup>3</sup> /4×9 <sup>1</sup> / <sub>3</sub> 2in	
	Weight	9.6kg; 21.2lb	9.0kg; 19.8lb	3.8kg; 8.4lb	
Transmitter	Output power	SSB, CW, RTTY, FM: 5–100W AM: 5–40W	SSB, CW, RTTY, FM: 5–100W AM: 5–40W	SSB, CW, RTTY: 2–100W AM: 2–40W	
Trans	Spurious emissions	Less than –50dB (HF) Less than –60dB (50MHz)	Less than –50dB (HF) Less than –60dB (50/144MHz)	Less than –50dB	
	Carrier suppression	More than 40dB	More than 40dB	More than 40dB	
	Unwanted sideband	More than 55dB	More than 55dB	More than 50dB	
	Microphone connector	8-pin connector (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)	
	Sensitivity (typical)         SSB, CW, RTTY:           Preamp ON         50–54MHz         0.16μV           SSB, CW, RTTY, AM: At 10dB S/N         6.5–1.8MHz         1.3μV           FM, WFM: At 12dB SINAD         1.8–30MHz         2.0μV           SO-54MHz         1.0μV         1.8–30MHz         2.0μV           SO-54MHz         1.0μV         1.8–30MHz         1.0μV           FM:         28–30MHz         1.0μV           FM:         28–30MHz         0.5μV           SO-54MHz         0.32μV         1.02μV		SSB, CW, RTTY:           1.8–29.99MHz         0.16μV           50MHz band         0.13μV           144MHz band         0.11μV           AM:         0.5–1.8MHz         13μV           1.8–29.99MHz         2.0μV           50/144MHz bands         1.0μV           FM:         28–29.99MHz         0.5μV           50/MHz band         0.25μV           44MHz band         0.18μV	SSB, CW, RTTY: 1.8–29.999MHz 0.16μV AM: 0.5–1.799MHz 13μV 1.8–29.999MHz 2.0μV	
Receiver	Selectivity	SSB, RTTY:       2.4kHz/-6dB         (2.4kHz*)       3.2kHz/-40dB         3.6kHz/-60dB       4.3kHz/-80dB         4.3kHz/-80dB       60Hz*)         CW:       500Hz/-60dB         (500Hz*)       700Hz/-60dB         AM:       6.0kHz/-6dB         (6kHz)       15kHz/-60dB         FM:       12kHz/-6dB         (15kHz)       20kHz/-60dB         *variable between 50Hz and 3.6kHz		SSB, CW, RTTY: 2.1kHz/-6dB 4.5kHz/-60dB AM: 6.0kHz/-6dB 20kHz/-40dB	
	Spurious and image rejection (except IF)	More than 70dB	More than 70dB (HF, 50MHz bands) More than 60dB (144MHz band)	More than 70dB	
	<b>AF power</b> at 10% distortion with an $8\Omega$ load	More than 2.0W	More than 2.0W	More than 2.0W	
	External speaker connector	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (½")/8Ω	

The LCD display of the IC-756PROII may have cosmetic imperfections that appear as small or dark spots. This is not a malfunction or defect, but a normal characteristic of LCD displays. All stated specifications are subject to change without notice or obligation.

### **SPECIFICATIONS**

### **DESKTOP AND PORTABLE TRANSCEIVERS**

		IC-706MKIIG	IC-703	IC-910H	
	Frequency coverage (Differs according to version)	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50, 144, 430(440)MHz bands Rx: 30kHz–200MHz and 400–470MHz Guaranteed range 0.5–4, 4.5–8, 9–29.995, 50–54MHz, 144MHz and 430(440)MHz bands.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60MHz Guaranteed range 0.5–29.995, 50–54MHz. 50MHz band is not available depending on version.	U.S.A. version: Tx: 144–148MHz, Rx: 136–174MHz Tx: 430–450MHz, Rx: 420–480MHz Tx: 1240–1300MHz <sup>*1</sup> , Rx: 1240–1320MHz <sup>*1</sup> Guaranteed range 144–148MHz and 430–450MHz. Europe version: Tx/Rx: 144–146MHz, 430–440MHz	
	Modes	USB, LSB, CW, RTTY, AM, FM, WFM (WFM, Rx only)	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, FM, FM-N (FM-N is not available in 1200MHz band)	
General	Frequency stability	$\pm$ 7ppm (From 1 min. to 60 min. after power ON at 25°C; +77°F)	±0.5ppm (0°C to +50°C; +32°F to +122°F)	±3ppm (–10°C to +60°C; +14°F to +140°F)	
Ğ	Maximum current drain	20A at 13.8V DC	3.0A typical at 13.8V DC 2.0A typical at 9.6V DC	23A at 13.8V DC	
	Power supply requirement	13.8V DC ±15%	9–15.8V DC ±15%	13.8V DC ±15%	
	Antenna connector	$SO\text{-}239\times2$ (for HF/50MHz and 144/430(440)MHz bands: 502)	SO-239 (50Ω)	144MHz         SO-239 (50Ω)           430/1200* <sup>1</sup> MHz         Type-N (50Ω)	
-	Number of memory channels	107 (99 regular + 6 scan edges and 2 call)	105 (99 regular and 6 scan edges )	328 <sup>*1</sup> (99 regular + 6 scan edges and 1 call for each band plus 10 satellite memories)	
	<b>Dimensions</b> (W×H×D) ; Projections are not included.	167×58×200mm; 6 <sup>9</sup> ⁄16×2 <sup>9</sup> ⁄32×7 <sup>7</sup> ⁄sin	167×58×200mm; 6 <sup>9</sup> ⁄16×2 <sup>9</sup> ⁄32×7 <sup>7</sup> ⁄sin	241×94×239mm; 9½×3 <sup>11</sup> ⁄16×9 <sup>13</sup> ⁄32in	
	Weight	2.45kg; 5.4lb	2.0kg; 4.4lb	4.5kg; 9.9lb (Without UX-910)	
Transmitter	Output power	stput power         SSB, CW, RTTY, FM:           1.8-50MHz         5-100W           144MHz         5-50W           430(440)MHz         2-20W           AM:         1.8-50MHz         2-40W           144MHz         2-20W           AM:         1.8-50MHz         2-40W           144MHz         2-20W           430(440)MHz         2-8W		144MHz 5–100W 430MHz 5–75W 1200MHz*1 1–10W	
Tran	Spurious emissions	–50dB typical (HF) Less than –60dB (other bands)	Less than –50dB (HF) Less than –60dB (50MHz)	Less than -60dB (144/430MHz) Less than -50dB (1200MHz*1)	
	Carrier suppression	More than 40dB	More than 40dB	More than 40dB	
	Unwanted sideband	More than 50dB	More than 50dB	More than 40dB	
	Microphone connector	8-pin modular (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)	
	<b>Sensitivity (typical)</b> Preamp ON SSB, CW, RTTY, AM: At 10dB S/N FM, WFM: At 12dB SINAD	SSB, CW: 1.8–30MHz 0.15µV 50MHz 0.12µV 144/430(440)MHz 0.11µV AM: 0.5–1.8MHz 13µV 1.8–30MHz 2.0µV 50MHz 1.0µV 144/430(440)MHz 1.0µV FM: 28–30MHz 0.5µV 50MHz 0.25µV 144/430(440)MHz 0.18µV WFM: 76–108MHz 10µV	SSB, CW: 1.8–30MHz 0.16μV 50MHz 0.13μV AM: 0.5–1.8MHz 13μV 1.8–30MHz 2.0μV 50MHz 1.0μV FM: 28–30MHz 0.5μV 50MHz 0.25μV	SSB, CW: 0.11μV FM: 0.18μV	
Receiver	Selectivity	SSB, CW, RTTY: 2.4kHz/-6dB 4.8kHz/-60dB AM, FM-N: 8.0kHz/-6dB 30kHz/-36dB FM: 12kHz/-6dB 30kHz/-50dB	SSB, CW:         2.4kHz/-6dB           (2.4kHz)         4.0kHz/-60dB           AM, FM-N:         9.0kHz/-6dB           (6kHz)         20kHz/-50dB           FM:         15kHz/-6dB           (15kHz)         30kHz/-50dB	SSB, CW 2.3kHz/-6dB 4.2kHz/-60dB FM: 15kHz/-6dB 30kHz/-60dB FM-N: 6.0kHz/-6dB 18kHz/-60dB	
	Spurious and image rejection (except IF)	More than 70dB (HF) More than 60dB (other bands; except IF point on 50MHz band)	More than 70dB (HF) More than 65dB (50MHz band; except IF point)	More than 60dB (144/430MHz band) More than 50dB (1200MHz band* <sup>1</sup> )	
	<b>AF power</b> at 10% distortion with an $8\Omega$ load	More than 2.0W	More than 1.0W (at 13.8V DC)	More than 2.0W	
	External speaker connector	2-conductor 3.5 (d) mm (½")/8 $\Omega$	2-conductor 3.5 (d) mm (½")/8 $\Omega$	2-conductor 3.5 (d) mm (1/8″)/8 $\Omega$ × 2 (for Main and Sub bands)	

<sup>\*1</sup> An optional UX-910, 1200MHz band unit is required for 1200MHz operation.

### **SPECIFICATIONS**

### **MOBILE TRANSCEIVERS**

	IC-2720H IC-2725E	IC-208H IC-E208	IC-V8000	IC-2100H	
Frequency coverage (Olffers according to version)	IC-2720H (U.S.A.): Tx 144–148MHz 440–450MHz Rx *1 118–549.995MHz 810–999.990MHz IC-2725E (Europe): Tx/Rx 144–146MHz 430–440MHz	IC-208H (U.S.A.): Tx 144–148, 440–450MHz Rx *1 118–173.995, 230–549.995, 810–999.990MHz IC-E208 (Europe): Tx 144–146, 430–440MHzMHz Rx *2 118–173.995, 230–549.995, 810–999.990MHz	Tx 144–148MHz Rx 136–174MHz* <sup>3</sup>	U.S.A. version: Tx 144–148MHz Rx 136–174MHz* <sup>3</sup> Europe version: Tx/Rx 144–146MHz	
Max.current drain	VHF 12A UHF 11A	VHF 12A UHF 11.5A	15A	12A	
Dimensions (W×H×D) Proj. not included.	Main unit: 140×40×187mm; 5½×1%6×7%in Controller: 140×50 ×24.5mm; 5½×1 <sup>3</sup> ⅓2×3⅓2in	5½×1%/6×7%/sin 141×40×185.4mm; controller: 140×50 ×24.5mm; 5%/6×1%/6×75%/sin		140×40×180mm; 5¹⁄₂×1⁰⁄ı6×7³⁄₃₂in	
Weight	1.25kg; 2.8lb (Main unit) 150g; 5.3oz (Controller)			1.2kg; 2.6lb	
Output power at 13.8V DC	144MHz           High:         50W           Mid.:         15W (approx.)           Low:         5W (approx.)           430(440)MHz           High:         35W           Mid.:         15W (approx.)           Low:         5W (approx.)	144MHz High: 55W Mid.: 15W (approx.) Low: 5W (approx.) 430(440)MHz High: 50W Mid.: 15W (approx.) Low: 5W (approx.)	High: 75W Mid-Hi: 25W (approx.) Mid-Lo: 10W (approx.) Low: 5W (approx.)	High: 55/50W* Mid.: 10W (approx.) Low: 5W (approx.) * Depending on version	
Sensitivity at 12dB SINAD	Less than 0.18µV (144, 430(440) MHz band)	Less than 0.18µV (144, 430(440) MHz band)	0.15µV typ.	0.16μV typ.	

\*1 Guaranteed range 144–148 and 440–450MHz. Celluar blocked. \*2 Guaranteed range 144–146 and 430–440MHz. \*3 Guaranteed range 144–148MHz.

### HANDHELD TRANSCEIVERS

	IC-T90A IC-E90	IC-W32A/E	IC-T7H	IC-Q7A	IC-T3H IC-V8	IC-T2H	IC-T22A/E	IC-2GXAT
Frequency coverage (Differs according to version, Unit: MHz)	IC-T90A (U.S.A.): Tx 50-53.995 144-148 430-450* <sup>2</sup> Rx 0.495-999.990* <sup>2</sup> IC-E90A (Europe): Tx 50-52 144-146 430-440 Rx 0.495-999.990	U.S.A. Version: Tx 144–148 440–450 Rx 118–174 <sup>*1</sup> 440–470 <sup>*2</sup> Europe Version: Tx 144–146 430–440 Rx 118–174 <sup>*5</sup> 400–470 <sup>*6</sup>	U.S.A. Version: Tx 144-148 430-450*2 Rx 118-174*1 400-470*2 Europe Version: Tx/Rx 144-146 430-440	U.S.A. Version: Tx 144–148 430–450*2 Rx 30–1309.995*34	IC-V8 (U.S.A.): Tx 144–148 Rx 136–174*1 IC-T3H (Europe): Tx/Rx 144–146	U.S.A. Version: Tx 144–148 Rx 136–174* <sup>1</sup> Europe Version: Tx/Rx 144–146	U.S.A. Version: Tx 144–148 Rx 136–174*1 Europe Version: Tx/Rx 144–146	U.S.A. Version: T/R 144–148
Dimensions (W×H×D) Proj. not included.	58×87×29mm; 2 <sup>9</sup> ⁄32×3 <sup>7</sup> ⁄16×1 <sup>5</sup> ⁄32in	57×137×33mm; 2 <sup>1</sup> /4×5 <sup>13</sup> /32×1 <sup>5</sup> /16in with BP-173/BP-180	57×122×29mm; 2 <sup>1</sup> /4×4 <sup>13</sup> /16×1 <sup>5</sup> /16in with BP-173/BP-180	58×86×27mm; 2 <sup>9</sup> ⁄32×3 <sup>3</sup> ⁄8×1 <sup>1</sup> ⁄16in	54×132×35mm; 2 <sup>1</sup> ⁄8×5 <sup>3</sup> ⁄16×1 <sup>3</sup> ⁄8in	58×104.5×32.3mm; 2⁵⁄ı6×5¹⁄₂×1⅔₂in	57×110×27mm; 2¼×4 <sup>13</sup> ⁄16×11⁄16in	57×125×35mm; 2 <sup>1</sup> ⁄4×4 <sup>29</sup> ⁄32×1 <sup>3</sup> ⁄8in with BP-160
Weight	280g; 9.9oz with Ant. and BP-217	450g; 1 lb with Ant. and BP-173	320g; 11.3oz with Ant. and BP-180	170g; 6oz with Ant. and alkaline cells	350g; 12.3oz with Ant. and BP-222	420g; 14.8oz	310g; 10.9oz	365g; 12.9oz with BP-160
Output power typical values	5W, 0.5W at 8.0V DC	5W, 0.5W at 13.5V DC	6.0W, 0.5W at 13.5V DC	144MHz:350mW 430(440)MHz: 300mW at 3.0V DC	5.5W, 0.5W at 7.2V DC	6.0W, 1.0W at 9.6V DC	5W, 0.5W at 13.5 or 9.6V DC 3.5W, 0.5W at 7.2V DC	7W, 1W at 13.5V DC
Sensitivity at 12dB SINAD	Less than 0.16µV (50, 144, 430 (440) MHz bands)	Less than 0.16µV (Less than 0.32µV for V/V and U/U)	Less than $0.18 \mu V$	0.16μV typ.(VHF) 0.18μV typ.(UHF)	0.16µV typ.	0.14µV typ.	Less than $0.16 \mu V$	Less than 0.18µV

\*<sup>1</sup> Guaranteed range 144–148MHz. \*<sup>2</sup> Guaranteed range 440–450MHz. \*<sup>3</sup> Guaranteed range 30–1300MHz. \*<sup>4</sup> Celluar blocked. \*<sup>5</sup> Guaranteed range 144–146MHz. \*<sup>6</sup> Guaranteed range 430–440MHz.



#### Applicable U.S. Military Specifications

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