



VHF AND UHF TRANSCEIVERS

IC-F5013

25 W VHF Transceiver

IC-F6013

25 W UHF Transceiver

IC-F5013H

50 W VHF Transceiver

IC-F6013H

45 W UHF Transceiver



Limited functions.

Simple operation, versatile functions & rugged construction for your day-to-day communication needs

Simple operation for instant communication

The IC-F5013/H series has 8 channels. The P0-P3 programmable buttons allow you to customize the radio to suit your needs and convenience.

Most popular signalings built-in

Use the built-in 2-Tone, 5-Tone, MDC 1200, CTCSS and DTCS capabilities as standard to set up your own talk groups and quiet stand-by when others are talking.

Multiple 2-Tone, multiple 5-Tone

Up to ten 2-Tone or eight 5-Tone codes can be decoded on a channel. Features such as stun, kill, revive, answer back, auto TX, scan, audio output are programmable to respond to each tone.

MDC 1200 compatible

The IC-F5013/H series has a built-in MDC 1200 for transmitting a PTT ID and emergency* signal and for receiving radio check, stun and revive. Assimilate the radio easily into existing MDC 1200 systems. (* No ACK transmission)

Enhanced scan features

The priority scan function allows you to monitor one or two priority channels while scanning other non-priority channels. The Tx channel and talk back functions allow you to make a quick response while scanning.

Remote channel control with optional ACC cable

The optional ACC cable allows you to connect with various external devices to control audio output, modulated signal input, remote channel control, horn honk and many more functions. OPC-1939 is a D-SUB 15-pin type and OPC-2078 is a D-SUB 25-pin type.



Photo shows optional OPC-2078 installed on high power version.

Built military rugged

The IC-F5013/H series is tested to MIL-STD 810 F specifications. The radio is built to survive harsh environment and keep working.

Other features

- 4 W (typ.) front mounted speaker
- Wide frequency coverage (136–174, 400–470 and 450–520 MHz)
- Wide/narrow channel spacing (25, 12.5 kHz) programmable
- Microphone hanger action programmable
- Optional DTMF microphone (HM-152T)
- Optional voice scrambler unit, UT-109R or UT-110R
- DTMF autodial function
- PC programmable
- Talk around function
- Power-on password function
- Nuisance delete function
- Time-out-timer, lock-out penalty timer

SPECIFICATIONS

	IC-F5013H, IC-F5013	IC-F6013H, IC-F6013
GENERAL		
Frequency coverage	136–174 MHz	400–470 MHz 450–520 MHz
Number of channels	8 channels	
Type of emission	16K0F3E/11K0F3E	
Channel spacing	12.5/25 kHz	
PLL channel step	2.5/3.125 kHz	
Power supply requirement	13.6 V DC	
Current drain (approx.)		
Tx 50 W/45 W 25 W	10 A (IC-F5013H) 5 A	11 A (IC-F6013H) 5 A
Rx Max. audio/Standby	700 mA/250 mA	700 mA/250 mA
Antenna impedance	50 Ω (SO-239)	
Operating temperature range	–30 °C to +60 °C ; –22 °F to +140 °F	
Dimensions (W × H × D) (Projections not included)	150 × 40 × 167.5 mm; 5.9 × 1.6 × 6.6 in (IC-F5013H/F6013H) 150 × 40 × 117.5 mm; 5.9 × 1.6 × 4.6 in (IC-F5013/F6013)	
Weight (approx.)	1.1 kg; 2.4 lb (IC-F5013H/F6013H) 0.8 kg; 1.8 lb (IC-F5013/F6013)	
TRANSMITTER		
Output power (Hi, L2, L1) (at 13.6 V DC)	50 W, 25 W, 5 W (IC-F5013H) 25 W, 10 W, 2.5 W (IC-F5013)	45 W, 25 W, 4.5 W (IC-F6013H) 25 W, 10 W, 2.5 W (IC-F6013)
Max. frequency deviation	±5.0 kHz/±2.5 kHz (Wide/Narrow)	
Frequency stability	±2.5 ppm	
Spurious emissions	70 dB min.	70 dB typ.
FM Hum and noise	46/40 dB typ. (Wide/Narrow)	
Audio harmonic distortion (AF 1 kHz 40% deviation)	3% typ.	
Ext. microphone impedance	600 Ω (8-pin modular)	

	IC-F5013H, IC-F5013	IC-F6013H, IC-F6013
RECEIVER		
Sensitivity (at 12 dB SINAD)	0.25 μV typ.	
Adjacent channel selectivity	75/65 dB typ. (W/N)	
Spurious response rejection	70 dB min.	
Intermodulation rejection	75 dB typ.	
Hum and noise	45/40 dB typ. (W/N)	
Audio output power (at 5% distortion, 4 Ω load)	4 W typ.	
Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/4 Ω	

All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications

Standard	MIL 810F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Humidity	507.4	–
Settling Dust	510.4	III
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent MIL-STD-810-C, -D and -E.

Supplied Accessories

- Hand microphone (HM-152)
- DC power cable
- Mounting bracket kit
- Microphone hanger
- Key assign stickers

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

HAND MICROPHONES

HM-152
HM-152T
DTMF microphone
HM-148G
Heavy duty microphone
HM-148T
Heavy duty microphone with DTMF keypad

DESKTOP MICROPHONE

SM-26

VOICE SCRAMBLER UNITS

UT-109R
Non-rolling type voice scrambler unit
UT-110R
Rolling type voice scrambler unit

EXTERNAL SPEAKERS

SP-30
SP-35: 2 m cable
SP-35L: 6 m cable

ACC CABLES

OPC-2078
25-pin type
OPC-1939
15-pin type

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