

Product Information

29 June 2011

Market: Commercial Ref: F5012P080211PIL

From: Ian Lockyer

IC-F5012/F6012 Entry Level Mobile Radio Series, New!

The new IC-F5012/F6012 mobile transceiver series is the replacement to Icom's best selling IC-F110S/F210S series and is designed as a simplified counterpart to Icom's IC-F5022/F6022 series. This series has many attractive features and an uncomplicated LED display that makes it ideally suited to small to mid sized radio systems such as taxi operators, construction companies, security firms and farmers.

We have a limited supply of IC-F210S still available. Contact Icom Sales for more details.



MAJOR SELLING POINTS

- ☐ Entry level mobile with a competitive price
- ☐ Simple operation with 4 programmable buttons
- ☐ VHF (IC-F5012) & UHF (IC-F6012) versions available
- ☐ MIL-STD-810-F rugged body
- ☐ Enhanced scanning features
- ☐ Multiple signalling modes built-in 5-Tone, CTCSS, DTCS, MDC 1200* and BIIS 1200* (* Limited functions only)
- ☐ 4W (typ.) front mounted speaker and independent volume knob
- 2 year warranty on transceiver, I year warranty on accessories

Features

☐ Multi 5-tone function built-in

The IC-F5012/F6012 series has built-in 5-Tone, CTCSS and DTCS signalling capabilities for group communication. The IC-F5012/F6012 series can decode up eight 5-tone codes on a channel. The following actions are programmable to respond to each tone.

- Beep sound LED lighting Answer back call Auto TX Stun, kill revive Scanning External output*
- * External device connection such as a horn honk, buzzer, etc is required.



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☐ Internal option units available

The IC-F5012/F6012 series has an internal 40-pin socket for an optional unit so that you can use the optional UT-109R or UT-110R voice scrambler units The UT-108R DTMF decode unit is also available.

☐ 4W (typical) front mounted loud speaker

The IC-F5012/F6012 series has a 4W (typical) front mounted speaker providing the operator with clear audio during operation.

■ Easy to use

The IC-F5012/F6012 series has 4 programmable buttons. 8 memory channels can be easily selected with the programmable buttons. Backlit buttons make night time operation simple.

□ Enhanced Scan features

- Priority scan 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.
- Nuisance delete ... User can temporary skip a busy channel from the scanning list.
- Monitor key action ... User can stop a scan when pushing the monitor button.

☐ External memory channel control with optional ACC cable

The optional ACC cable allows you to connect various external devices like a PC, external speaker, or even vehicle horn. It can provide ignition sense function, external memory channel control as well as the external PTT, audio output and modulated signal input. The OPC-1939 is a D-SUB 15-pin type and the OPC-2078 is a D-SUB 25-pin type.

□ Other features

• BIIS PTT ID transmission • ±2.5ppm frequency stability • DTMF autodial memories

SPECIFICATIONS

Specifications described below are target values. They may be subject to change.

■ GENERAL

Frequency coverage

IC-F5012 136–174MHz IC-F6012 400–470MHz,

• Type of emission : 16K0F3E/14K0F3E/8K50F3E

 $\begin{array}{lll} \bullet \text{ PLL channel step} & : 2.5, \ 3.125 \text{kHz} \\ \bullet \text{ Number of channels} & : 8 \ \text{channels} \\ \bullet \text{ Antenna connector} & : SO-239 \ (50 \ \Omega) \\ \bullet \text{ Operating Temp. range} & : -25 ^{\circ}\text{C to} +55 ^{\circ}\text{C} \end{array}$

Power supply requirements: 13.2V DC
 Current drain (approx.): VHF
 Receive
 Standby
 250mA
 250mA

Max. audio 0.7A 0.7A Transmit 25W 5.0A 5.0A 50/45W 10.0A 11.0A

Dimensions (WxHxD)

150x40x117.5 mm; 5.91x1.57x4.63 in • Weight (approx.) : 800g; 1.8 lb

■ TRANSMITTER

• Output power : 25W

• Maximum deviation : ±5.0/4.0/2.5kHz (W/M/N)

• Frequency stability
• Spurious emissions
: ±1.5kHz
: 0.25μW (≤1GHz)
1.0μW (> 1GHz)

• FM Hum and Noise : 46/40dB typ. (Wide/Narrow) • Residual modulation : 55/53/50dB typ. (W/M/N)

(Europe versions, with CCITT filter)

Audio harmonic distortion
 Limiting character of
 3% typ. (AF 1kHz 40% deviation)
 70–100% of max. deviation

Modulation

■ RECEIVER

•Sensitivity : (20dB SINAD) –4dBµV (emf) typ. • Adjacent channel : 75dB typ. (Wide, middle)

selectivity 65dB typ. (Narrow)
• Spurious response : 70dB min.

Intermodulation
Hum and noise
55/53/50dB typ. (W/M/N)

 $\hbox{ (with CCITT filter)} \\ \hbox{ • Audio output power} \\ \hbox{ a 4Ω load} \\ \hbox{ : 4.0W typ. at 5\% distortion with} \\ \hbox{ } \\$