

## IC-F3 & IC-F4 Specifications

This information is taken directly off of the ICOM IC-F3/IC-F4 brochure.

### General

- Frequency coverage (Varies according to version)
  - IC-F3: 136.000 - 150.000 MHz  
146.000 - 174.000 MHz
  - IC-F4: 400.000 - 430.000 MHz  
440.000 - 470.000 MHz
- Mode: 16KOF3E (25 kHz type) 8KOF3E (12.5 kHz type)
- Number of channels: 32
- Power supply requirement: 9.6 V DC (negative ground)
- Current drain
  - Tx High Power 2.0 A
  - Low power 1.0 A
  - Rx Rated audio 300 mA
  - Standby 60 mA
- Frequency stability:
  - $\pm 0.0005\%$  (EIA)
  - $\pm 1500$  Hz (ETS/CEPT)
- Usable temperature range:
  - $+14^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$  (EIA)
  - $-10^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  (ETS/CEPT)
- Dimensions (proj. not included):
  - 57(W) x 140(H) x 37(D) mm
  - 2(W) x 5(H) x 1 15/32 (D) in
- Weight (with antenna and battery): 390 g (13.8 oz)

### Transmitter

- Output power: (at 9.6 V DC)
  - IC-F3 5 W or 1 W
  - IC-F4 4 W or 1 W
- Modulation system: Variable reactance frequency modulation
- Max. frequency deviation:
  - $\pm 5.0$  kHz (25 kHz type)
  - $\pm 2.5$  kHz (12.5 kHz type)
- Spurious emissions:
  - -70 dB typical (EIA)
  - 0.25 MW (ETS/CEPT)
- Adjacent channel power:
  - -70 dB (25 kHz type)
  - -60 dB (12.5 kHz type)
- External mic. connector:
  - 3-conductor 2.5 (d) mm
  - (1/10")/2 k ohms

Measurements made in accordance with EIA/TIA-152-C, 204D, 603 or ETS-300-086 or CEPT T/R 24.

### Receiver

- Receive system: Double-conversion superheterodyne
- Intermediate freq. (F3/F4)
  - 1st 31.05/46.35 MHz
  - 2nd 450 kHz
- Sensitivity (typ.; F3/F4)
  - for 12 dB SINAD 0.25/0.3  $\mu\text{V}$
  - EMF: for 20 dB SINAD 0.63/0.79  $\mu\text{V}$

- Squelch sensitivity (typ.; F3/F4) : 0.25/0.3 mV (at threshold)
- Adjacent channel selectivity: 70 dB (25 kHz type) 60dB (12.5 kHz type)
- Spurious response rejection: 70 dB
- Intermodulation rejection: 65 dB
- Audio output power (at 9.6 V DC): 500 mW at 10% distortion
- External speaker connector: 3-conductor 3.5 (d) mm (1/8")/8 ohm

### Options

- BC-110A/D/V WALL CHARGER Regularly charges the connected battery pack.
- BC-119 DESKTOP CHARGER + AD-81 CHARGER ADAPTER For rapid charging of battery packs. An AC adapter is supplied with the charger. Charging time: 1 to 1.5 hrs.
- BC-121 MULTI-CHARGER + AD-81 CHARGER ADAPTER For rapid charging up to 6 battery packs simultaneously. An AC adapter may be supplied depending on version. Six AD-81s are necessary. Charging time: 1 to 1.5 hrs.
- BP-194 BATTERY CASE Battery case for AA(R6) x 8 batteries.
- BP-195/BP-196 BATTERY PACKS
- BP-195: 9.6 V/700mAh; BP-196: 9.6 V/1050 mAh
- HM-46 SPEAKER-MICROPHONE Slim dimensions. Equipped with an earphone jack and a transmit indicator.
- HM-54 SPEAKER-MICROPHONE For operation while conveniently hanging the transceiver from you belt, etc.
- HM-75A SPEAKER-MICROPHONE Allows you to remotely select operating channels, etc.
- HS-51 HEADSET For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer.
- OPC-254L DC CHARGING CABLE Allows you to charge a battery pack connected to the transceiver via a DC power source (13.5 to 16 V DC). For charging ONLY. The transceiver cannot be simultaneously operated.
- OPC-474 CLONING CABLE Used for radio-to-radio data cloning.
- SP-13 EARPHONE Provides clear audio in noisy environments.
- UT-80 2-TONE UNIT Provides the transceiver with 2-tone decode capability.
- UT-96 5-TONE UNIT Provides the transceiver with 5-tone encode/decode capabilities.

### **Tri-County Communications, Inc.**

6 Keith St.  
Oneonta, NY 13820  
1-800-564-8724

110 Broad Ave.  
Binghamton, NY 13904  
1-800-924-1125

[sales@tricountycom.com](mailto:sales@tricountycom.com)