

FLEX-5000C Transceiver Specifications:

General

Rx Frequency Range:

10 kHz - 65 MHz (operating – requires external, customer provided filters below 1.8 MHz to eliminate images)

160 - 6 m (specified performance in Amateur bands only)

Transmitter Frequency Range:

160 - 6 m (Amateur bands only)

Frequency Stability:

±0.5 ppm 32 °F to 122 °F (0 °C to +50 °C)

Operating Temperature Range:

14 °F to 122 °F (–10 °C to +50 °C)

Emission Modes:

A1A (CW), A3E (AM), J3E (LSB, USB), F3E (FM),

F1B (RTTY), F1D (PACKET), F2D (PACKET)

Frequency Steps:

1Hz minimum

Antenna Impedance:

50 Ohms, unbalanced

6 - 1000 Ohms, unbalanced (With Optional Tuner ON, 160 - 10 m Amateur bands)

16 - 150 Ohms, unbalanced (With Optional Tuner ON, 6 m Amateur band)

Power Consumption:

Rx 1.5A (typ.); Tx (100 W) 25A (max.)

Supply Voltage:

DC: DC 13.8 V ± 10%

Negative Ground Transmitter output specified at 13.8VDC

Maximum Interconnect Cable Length:

Firewire - 10 feet (3m),

No restriction on DC power cable within voltage tolerance limits under load.

Special EMI/RFI Requirements:



CE Compliance Cable Requirements:

1 snap on ferrite bead on DC power cable (supplied)

2 snap on ferrite beads on FireWire cable (supplied)

1 snap on ferrite bead on FlexWire cable

All beads to be located adjacent to rear panel of radio.

Dimensions:

(WxHxD): 17.67" x 9.0" x 14.67" (44.9 cm x 22.1 cm x 37.3 cm)

Weight:

(approx.): 13 lbs (5.9 kg)

Transmitter

Power Output:

1 - 100 watts PEP CW and SSB at 13.8VDC input voltage

25 watts AM carrier

Emission Modes Types:

A1A (CWU, CWL), J3E (USB, LSB), A3E (AM), F3E (FM), DIGITAL

Harmonic Radiation:

Better than -55 dB (160 - 10m Amateur bands)

Better than -65 dB (6m Amateur band)

SSB Carrier Suppression:

At least 55 dB below peak output

Undesired Sideband Suppression:

At least 55 dB below peak output

Audio Response (SSB):

Flat Response 10 Hz to 20 kHz,

3-band or 10-band Software Equalizer

3rd-order IMD:

Better than -33 dB below PEP @14.2 MHz 100 watts PEP

Microphone Impedance:

600 Ohms (200 to 10k Ω)

Balanced Line In Impedance:

600 Ohms (200 to 10k Ω)

Receiver

Circuit Type:

Direct conversion, low IF

Intermediate Frequency:

Software selectable from DC to 20 kHz

MDS:

14 MHz Preamp off/on: 1.3/0.3 μ V;

MDS (typ.): -123 dBm/-133 dBm in 500 Hz BW

IP3:

+30 dBm at 14 MHz with preamp off at 2 kHz or less tone spacing (S5 IM3 method)

Selectivity (-6/-60 dB):

CW 500 Hz -6/-60 dB: 500/640

SSB 2.4 kHz -6/-60 dB: 2.39/2.54

AM 6.6 kHz -6/-60 dB: 6.60/6.74

Image Rejection:

70 dB or better (160 - 6m Amateur bands)

Specifications are subject to change without notice or obligation, and specifications are guaranteed only within the amateur radio bands.