

FT-80C

HF SSB TRANSCEIVER

YAESU



SPECIFICATIONS

GENERAL

Frequency Range

1.5-29.999975 MHz, except 7.6-9 MHz
and 23.527 \pm 50 kHz

Number of Channel

20 channels

Channel Steps

SSB & CW: 25 Hz

AM : 1 kHz

FM* : 5 kHz

Frequency Stability (0° to +40°C)

SSB, CW, AM: \pm 200 Hz

FM : \pm 300 Hz

Frequency Accuracy

SSB, CW, AM: \pm 200 Hz

FM : \pm 300 Hz

Antenna Impedance (nominal)

50 ohms, unbalanced

Supply Voltage

13.5 V DC \pm 10% (negative ground)

Maximum Current Consumption

19 A (typical, @100W output)

Dimensions (WHD)

238 X 93 X 238 mm (without knobs)

Weight

Approx. 3.5 kg (7.72 lb)

TRANSMITTER

Emission Types

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

Power Output (+20/-10%)

SSB, CW & FM* : 100W PEP/DC,

AM: 15W carrier

SSB Carrier Suppression

Better than 40 dB below peak output

Unwanted Sideband Suppression (SSB)

Better than 50 dB (1 kHz tone)

Spurious Radiation

Harmonic: better than -46 dB

(within 1.8-2.5, 3-3.5, 5.5-8, 10-15
and 18-30 MHz)

Non-Harmonic: better than -40 dB

Audio Response

Less than -6 dB from 400 to 2600 Hz

3rd Order Intermodulation Distortion

Better than -25 dB (@ 100W PEP)

Modulation Systems

SSB/CW: active balanced modulator

AM : early stage (low level)

FM* : variable reactance

Maximum FM* Deviation

\pm 2.5 kHz

Microphone Impedance

500 to 600 ohms

RECEIVER

Circuit Type

CW, SSB, AM: double conversion

FM* : triple conversion

Clarifier Range

\pm 9.975 kHz

Sensitivity (for 10 dB S+N/N, exc. FM)

SSB/CW: 0.5 μ V

AM : 2 μ V

FM* : 0.7 μ V for 12 dB SINAD
(above 28 MHz)

Squelch Sensitivity

SSB/CW/AM: 2.0 μ V above 1.5 MHz

4.0 μ V within 0.5-1.5 MHz

FM* : 0.32 μ V

Intermediate Frequencies

47.055 MHz, 8.215 MHz, 455 kHz (FM only*)

Image Rejection

Better than 70 dB within 1.5-30 MHz

IF Rejection

Better than 60 dB within 1.5-30 MHz

Selectivity (-6/-60 dB)

SSB, CW (W), AM (N): 2.2/5 kHz

CW (N)*: 500 Hz/1.8 kHz

AM (W) : 6/14 kHz; FM (6/50 dB)*: 8/19 kHz

Maximum Audio Power Output

At least 1.5W into 8 ohms w/10% THD

Audio Output Impedance

4 to 8 ohms

*FM operation requires optional unit.

**Measured with optional CW filter.

Specifications may be subject to change without notice or obligation.



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