



## SPECIFICATIONS

**FREQUENCY RANGE:** Tunable in 10 Hz steps.

**RECEIVE MODE:** 1.8-30.0 MHz.

**TRANSMIT MODE:** SSB or CW 160-thru 10 meter amateur bands.

\*HF-380 1.6 to 30 MHz.

**MODE:** SSB(voice and RTTY, either sideband selectable), CW, or AM (receive only).

**POWER REQUIREMENTS:** 105, 115, 125, 210, 220, 230, 240, 250, ±5% V ac (Internal strapping option) 50-60 Hz 12 V to 15 V dc (Connector strapping). 120 W input in receive max; 600 W input in transmit max.

**FREQUENCY ACCURACY:** Accurate to within ±5 Hz when the 39.6 MHz oscillator and the 455.0 kHz oscillator are set within ±3 Hz. Warm-up time is 10 min.

**FREQUENCY STABILITY:** Stability is within ±150 Hz over the temperature range of 0-50°C.

\*HF-380 is within ±20 Hz over the temperature range.

### TRANSMIT PERFORMANCE:

**OUTPUT IMPEDANCE:** 50 ohms nominal.

**POWER OUTPUT:** 100 W PEP nominal from 160 thru 10 meters. In RTTY, there is automatic turndown to 50 W after 30 seconds with continuous key

down; 50% duty cycle, key down 15 minutes max.

With the optional blower kit, power is 100 W average, 50% duty cycle, key down 1 hour max at 25°C, ½ hour max. at 50°C for all modes.

### UNWANTED SIGNAL SUPPRESSION:

(minimum values below PEP output)  
 Carrier suppression 50 dB  
 Undesired sideband, 1 kHz ref 55 dB  
 Harmonics (all) 40 dB  
 Mixer products 50 dB

**THIRD ORDER DISTORTION:** 25 dB below each tone of a two tone test.

**AUDIO INPUTS:** Microphone — low or high impedance type. Line — 600 ohm input unbalanced impedance; level of 40 mV sufficient to produce full output.

**AUDIO FREQUENCY RESPONSE:** Not more than 5 dB variation from 300 to 2400 Hz.

### RECEIVER PERFORMANCE:

**ANTENNA IMPEDANCE:** 50 ohms.

**SENSITIVITY:** For 10 dB or better  $\frac{S+N}{N}$  at antenna input for SSB and CW:

0.5 uV, 2.0 to 30 MHz  
 1.0 uV, 1.8 to 2.0 MHz

**SELECTIVITY:** In operating modes of USB, LSB, CW, and AM.

Filter	BW	
	-3 dB min	-60 dB max
Standard SSB	2.1 kHz	4.4 kHz
Standard AM	8.0 kHz	70 kHz

### Optional

AC 3810	360 Hz	1250 Hz
AC 3811	140 Hz	600 Hz
AC 3812	1.7 kHz	3.4 kHz
*AC 3813	6.0 kHz	25 kHz

\*optional for 8 kHz position.

**IF AND IMAGE REJECTION:** Greater than 60 dB.

**AUDIO OUTPUT:** Not less than 3 W into 4 ohm load at 1 kHz, at not more than 10% total harmonic distortion. Line audio output, -10 dBm nominal into 600 ohms.

**AUDIO FREQUENCY RESPONSE:** Not more than 5 dB variation from 300 to 2400 Hz.

**AGC:** Audio output variance not more than 8 dB as the RF input varies from 4.0 uV to 200 mV open circuit.

**INTERMODULATION DISTORTION:** Two signals spaced 20 kHz at a level of -10 dBm each will produce IMD down 50 dB min. (+15 dBm 3rd Order Intercept).

**SIZE:** 15.50 (39.4 cm) W, 6.5 (16.5 cm) H (w/o feet), 7.5" (19.1 cm) H (w/feet), 18.00" (45.7 cm) D.

**WEIGHT:** 50 lbs (22.7 kg).

Specifications subject to change without notice.

## COLLINS HF-380 GENERAL COVERAGE TRANSCEIVER

For U.S. government and international users authorized to operate between the HF frequencies of 1.6 to 30 MHz, Rockwell offers the new Collins HF-380 transceiver. The HF-380 is a complete general coverage transceiver including all the features of the KWM-380 plus the added capability needed to meet the demands of specialized users.

In addition to the general coverage transmit feature, the HF-380 features a high stability oscillator.

The HF-380 is available for authorized users through the Collins DOD/International sales organization.

