



## PRODUCT INFORMATION PAGE

### Rockwell Collins VHF-22C



## FEATURES

- Proline II remote-mounted, multichannel VHF voice transceiver providing AM voice communications in the frequency range from 118.000-135.975 in 8.33 kHz increments
- Can be used with Proline II [CTL-22C](#) control
- Accept either 2-out-of-5 parallel or RS-422A serial digital tuning data from frequency control unit
- Versions available with improvements for reduction VHF harmonics level in GPS band to prevent loss of GPS satellite reception when in VHF transmit mode
- Versions available with improvements for reduced low-frequency transmitter input audio response

## SPECIFICATIONS

<b>Weight:</b>	5.6 lbs.	<b>Dimensions:</b>	3.750"W x 3.50"H x 13.9"L
<b>Related documents:</b>	DO-138, Env Category AD/A/JNG/AAAEXXXXX; TSO C37b and C38b, class 1, FCC rules and regulations, parts 15 and 87	<b>Temperature:</b>	-65 to +131 C
<b>Altitude:</b>	55000 ft. max.	<b>Shock:</b>	6 g for 11 ms, operating
<b>Frequency Range:</b>	117.000 to 135.975 MHz	<b>Frequency stability:</b>	+0.0015%
<b>Channel Spacing:</b>	25 kHz	<b>Frequency control:</b>	2-out-of-5, in accordance w/ ARINC 410
<b>Channel change time:</b>	Less than 50 ms	<b>Transmit-receive interval:</b>	Less than 50 ms
<b>Radiated rfi:</b>	Meets RTCA Paper DO-138, DO-109, DO-110	<b>RF power output:</b>	20 watts nominal; 16 watts minimum
<b>Output impedance:</b>	52 ohms, unbalanced	<b>Harmonic Content:</b>	60 dB down from carrier minimum
<b>Spurious content:</b>	90 dB from carrier minimum	<b>Modulation capability:</b>	90% amplitude modulation
<b>Modulator input:</b>	Carbon mic input 0.125 V adjustable, 150 ohms	<b>Sidetone output:</b>	100 milliwatts into 600 ohms with 90% modulation
<b>Duty cycle:</b>	1-minute transmit; 4-minute receive	<b>Noise level:</b>	50 dB below 85% modulation at 1000 Hz
<b>Audio response:</b>	6-dB variation from 300 to 2500 Hz	<b>Audio distortion:</b>	15% max, 85% modulation
<b>AGC range:</b>	Maximum 3-dB variation, 5 to 200,000 uV	<b>Receiver audio output:</b>	100 mW into 600 ohms, balanced
<b>Receiver audio response:</b>	6-dB variation from 300 to 2500 Hz, 1000-Hz reference	<b>Receiver audio distortion:</b>	7% max, 30% modulated signal

# VHF-22C

<b>Part Number</b>	<b>VHF Communications Transceiver Description:</b>
822-1113-001	Basic unit with details listed above
822-1113-021	Includes filtering for GPS as detailed above
822-1113-023	Includes filtering for GPS and reduced low frequency transmitter input audio response

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