

Radius SP21 Portable Radio

Technical Specifications

General Specifications	
Operating Frequency Range	VHF (151 - 159 MHz)*, UHF (462 - 470 MHz)
Channel Bandwidth	12.5 / 25 kHz (programmable)
Channel Capacity	1
Power Supply Voltage	7.2 volts DC (6 cell, 2 / 3 AF battery pack)
Dimensions	4.5" H x 2.5" W x 1.2" T (114.3 x 63.5 x 30.5 mm)
Weight	11 oz. (312 g)
Average Battery Life	@ 5-5-90 Duty Cycle Rechargeable Ni-Cad Battery: 8 hours
Seal Integrity	Satisfies IP52 specification
Shock Stability	Satisfies TIA/EIA 603 specification
Vibration Stability	Satisfies TIA/EIA 603 specification
High Humidity	Satisfies TIA/EIA 603 specification

Transmitter Specifications	
RF Output	2W
Carrier Frequency Stability	2.5 ppm
Modulation Limiting	+ / - 2.5 kHz (12.5 kHz Bandwidth) + / - 5.0 kHz (25 kHz Bandwidth)
Audio Sensitivity	10 mV
Audio Distortion	10 %
Audio Frequency Response (variance from a true 6 dB per octave pre-emphasis curve referenced to 1 kHz, from 300 Hz to 3 kHz)	+1 to -3 dB
FM Hum and Noise Ratio	34 dB
Radiated Spurious	-13 dBm
Emissions	(50 uW) †
Adjacent Channel Power Ratio	50 dBc
FCC Modulation	11K0F3E, 16K0F3E

Receiver Specifications	
Channel Spacing	12.5 / 25 kHz (programmable)
Radiated Spurious Emissions	-57 dBm †
Reference Sensitivity (12 dB SINAD)	-119 dBm (0.25 uV) ††
Adjacent Channel Rejection	50 dB
Spurious Response Rejection	50 dB
Intermodulation Rejection	50 dB
Audio Frequency Response (variance from a true 6 dB per octave de-emphasis curve referenced to 1 kHz, from 300 Hz	+1 to -3 dB

to 3 kHz)	
Hum and Noise Ratio	34 dB
Audio Distortion @ 500 mW	5 %
Audio Squelch Sensitivity	12 dB SINAD
Audio Output	500 mW

***VHF models not available in Canada**

† FCC specifications, Part 15 & Part 90

†† Typical performance

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