

PRO5150™ Elite Portable Radio

Professional

SPECIFICATION SHEET



BENEFITS

Internal Voice Operated Transmission (VOX)

With the use of a headset, you can speak and listen to a radio conversation without having to use your hands.

Tone Tagging

Eight different ringing tones identify an individual or group.

Emergency Siren/Alert

A dedicated button on the top of the radio can be programmed to make a piercing sound when pushed in case of an emergency. For more critical emergencies, the dispatch center can be alerted instead.

Programmable RF Power Level

Each channel can be programmed with a high or low power setting depending on your coverage needs. Any of the side buttons on the radio can be programmed to temporarily switch between high and low power levels.

12.5/25 kHz Programmable Channel Spacing

Each channel can be programmed with either 12.5 kHz or 25 kHz channel spacing, providing flexibility to comply with changing government regulations.

Escalert

The sound of the alert tone gradually increases when a selective call or Call Alert™ is not answered.

FEATURES

- 16 Channels
- PTT-ID (encode only)
- Call Alert (decode only)
- Emergency Alert
- Emergency Siren
- Tone Tagging
- Voice Selective Call (decode only)
- Selective Radio Inhibit (decode only)
- Quik-Call II Signaling (decode only)
- Battery Gauge (LED/Tone)
- Repeater/Unit-to-Unit Operation
- Monitor
- Single Priority Scan
- Tight/Normal Squelch
- Busy Channel Lockout
- Time-Out Timer
- Nuisance Channel Delete
- CSQ/PL/DPL/inv-DPL



For those who require absolute freedom to perform and need to be constantly “in touch,” the compact and convenient PRO5150 Elite portable radio combines a lightweight size with all the advanced features and technology you would expect from Motorola.

PRO5150™ ELITE PORTABLE RADIO

GENERAL	VHF	UHF
Dimensions	Height x Width x Depth 4.00 in x 2.19 in x 1.20 in / 101.5 mm x 55.5 mm x 30.5 mm	
Weight (grams/ounces)	250 / 9	
Power Supply	Rechargeable battery 7.5 Volts	
Average Battery Life @ 5/5/90 Duty Cycle*		
Standard High Capacity Lithium Battery	9 hrs @ low power/7 hrs @ high power	
Ultra High Capacity Lithium Battery	13 hrs @ low power/10 hrs @ high power	
Model Numbers	LAH38KDC9AA3_N	LAH38RDC9AA3_N LAH38SDC9AA3_N
Frequency Range / FCC Approval	136 - 174 MHz / AZ489FT3801	403 - 470 MHz / AZ489FT4844 450 - 527 MHz / AZ489FT4845
Channel Spacing	12.5 / 20 / 25 kHz	
Frequency Stability (-30°C to 60°C, 25°C Ref.)	±2.5 ppm	



* 5% Receive, 5% Transmit, 90% Standby


TRANSMITTER	VHF	UHF
RF Power Output	1 - 5 W	1 - 4 W
Modulation Limiting	±2.5 kHz @ 12.5 kHz / ±4.0 kHz @ 20 kHz / ±5.0 kHz @ 25 kHz	
FM Hum & Noise	-40 dB	
Conducted / Radiated Emissions	-36 dBm < 1GHz / -30 dBm > 1GHz	
Audio Response (0.3 - 3 kHz)	+1 to -3 dB	
Audio Distortion (typical)	3%	

RECEIVER	VHF	UHF
Sensitivity (12 dB SINAD) EIA (typical)	0.25 µV	
Intermodulation per EIA	70 dB	
Adjacent Channel Selectivity	60 dB @ 12.5 kHz / 70 dB @ 25 kHz	
Spurious Rejection	70 dB	
Rated Audio	0.5 W	
Audio Distortion @ Rated Audio (typical)	3%	
Hum and Noise Shock	-40 dB	
Audio Response (0.3 - 3 kHz)	+1 to -3 dB	
Conducted Spurious Emission	-57 dBm < 1 GHz	
Per FCC Part 15	-47 dBm > 1 GHz	

MILITARY STANDARDS	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2
Low Temperature	502.1	1	502.2	1,2	502.3	1,2
Temperature Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	8,10	514.3	1	514.3	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4

Specifications subject to change without notice. All electrical specifications and methods refer to EIA/TIA 603 standards.

 Motorola Accelerated Life Test
 Meets IP54 Standard

 Military Standards MIL-SPECS 810 C, D, E

Contact your Motorola Representative for more information.



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