

PR1500 Specifications



Did you know?
 The majority of HT1000 accessories are backwards compatible with the PR1500, making it an easy transition for current customers.

GENERAL SPECIFICATIONS

	VHF 136-174 MHz	UHF R1 380-470 MHz	UHF R2 450-520 MHz
Channel Capacity	32	32	32
Model Numbers	AAH79KDC9PW5_N	AAH790DC9PW5_N	AAH79SDC9PW5_N
FCC Designation	AZ489FT3807	AZ489FT4865	AZ489FT4866
FCC Emissions Designators	11K0F3E, 16K0F3E, 8K10F1E, 8K10F1D		
Power Supply	One rechargeable nickel-cadmium, or nickel-metal hydride		
Dimensions (HxWxL)	6.00" x 2.30" x 1.50"		
Weight			
with NTN9815 NiCD Battery	19.85 oz		
with NTN9816 FM NiCD Battery	19.85 oz		
with NTN9858 NiMH Battery	20.63 oz		
with NTN9857 FM NiMH Battery	20.63 oz		

TRANSMITTER

	VHF	UHF R1	UHF R2
Frequency Range:	136-174 MHz	380-470 MHz	450-520 MHz
Channel Spacing	12.5/25 kHz	12.5/25 kHz	12.5/25 kHz
Maximum Frequency Separation	Full Bandsplit	Full Bandsplit	Full Bandsplit
Rated RF Output Power Adj*	1 to 5 W	1 to 5 W	1 to 5 W
Frequency Stability* (-30°C to +60°C; +25°C Ref.)	±0.00025%	±0.0002%	±0.0002%
Modulation Limiting*			
25 kHz channel	±5.0 kHz	±5.0 kHz	±5.0 kHz
NPSAC channel	N/A	N/A	N/A
12.5 kHz channel	±2.5 kHz	±2.5 kHz	±2.5 kHz
Emissions* (Conducted & Radiated)	-65 dBc	-70 dBc	-70 dBc
Audio Response* (6 dB/Octave Pre-emphasis from 300 to 3000 Hz)	+1, -3 dB	+1, -3 dB	+1, -3 dB
FM Hum & Noise Radio*			
25 kHz	-46 dB	-45 dB	-45 dB
12.5 kHz	-42 dB	-40 dB	-40 dB
Audio Distortion*	1%	2.0%	2.0%

* Measured in the analog mode per TIA/EIA 603. Specifications subject to change without notice.



Precise

RECEIVER

Typical Performance Specifications

	VHF	UHF R1	UHF R2
Frequency Range:	136-174 MHz	380-470 MHz	450-520 MHz
Channel Spacing	12.5/25 kHz	12.5/25 kHz	12.5/25 kHz
Maximum Frequency Separation	Full Bandsplit	Full Bandsplit	Full Bandsplit
Audio Output Power at Rated*	500 mW	500 mW	500 mW
Frequency Stability* (-30°C to +60°C; +25°C Ref.)	±0.00025%	±0.0002%	±0.0002%
Analog Sensitivity*			
12 dB SINAD	.25 µV	.25 µV	.25 µV
Selectivity*			
25 kHz chnl	-80 dB	-73 dB	-73 dB
12.5 kHz chnl	-63 dB	-63 dB	-63 dB
Intermodulation*	-78 dB	-73 dB	-75 dB
Spurious Rejection*	-80 dB	-75 dB	-75 dB
FM Hum and Noise*			
25 kHz	-52 dB	-47 dB	-50 dB
12.5 kHz	-40 dB	-40 dB	-47 dB
Audio Distortion*	1%	2.0%	2.0%

* Measured in the analog mode per TIA/EIA 603. Specifications subject to change without notice.

PORTABLE MILITARY STANDARDS 810 C, D, E & F

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1
Temperature Shock	503.1	I*	503.2	I/A1C3	503.3	I/A1C3	503.4	I
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	I*
Salt Fog	509.1	I*	509.2	I*	509.3	I*	509.4	I*
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24
Shock	516.2	I, II	516.3	I, IV	516.4	I/IV	516.5	I, IV

* Military Standards specify a single procedure for this test.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C / +60°C
Storage Temperature	-40°C / +85°C
Humidity	Per MIL-STD
ESD	IEC 801-2KV
Water & Dust Intrusion	IP54, MIL-STD

FACTORY MUTUAL APPROVALS

The PR1500 is Factory Mutual approved and Canadian Standard Association approved as intrinsically safe for use in Classes I, II, and III, Division 1, Groups C, D, E, F and G, as well as non-incendive use in Class I, Division 2, Groups A, B, C and D on models ordered with the Factory Mutual option, and battery.

Accelerated Life Test

Motorola's Accelerated Life Test (ALT) is a developmental process of rigorous laboratory testing that simulates years of field use. Motorola has a firm commitment to quality and reliability. These radios have been designed, manufactured and tested to achieve high levels of component and workmanship quality. Motorola radios are designed to minimize costly repairs and downtime.