

specifications

GENERAL	LOWBAND	VHF/UHF		
HT1250 Channel Capacity:	128	128		
Power Supply:	Rechargeable battery 7.5V	Rechargeable battery 7.5V		
Dimensions:				
With NiMH High Capacity Battery:	5.40 x 2.26 x 1.50 in (137 x 57.5 x 37.5 mm)			
With IMPRES NiMH/NiMH FM Battery:	5.40 x 2.26 x 1.60 in (137 x 57.5 x 40 mm)			
With IMPRES Li-ion Battery:	5.40 x 2.26 x 1.30 in (137 x 57.5 x 40 mm)			
Weight:				
With NiMH High Capacity Battery:	15.0 oz. (420g)			
With IMPRES NiMH/NiMH FM Battery:	17.5 oz. (488g)			
With IMPRES Li-ion Battery:	12.8 oz. (358g)			
Average Battery Life @ 5/5/90 Duty Cycle*:	Low Power	High Power	Low Power	High Power
With NiMH High Capacity Battery:	11 hrs	8 hrs	11 hrs	8 hrs
With IMPRES NiMH Battery:	17 hrs	11 hrs	17 hrs	13 hrs
With IMPRES NiMH FM Battery:	16 hrs	10 hrs	16 hrs	13 hrs
With IMPRES Li-ion Battery:	18 hrs	11 hrs	18 hrs	14 hrs
FCC Description:	AZ489F13794 (136-174 MHz), AZ489F14826 (403-470 MHz), AZ489F14834 (450-512 MHz), AZ489F11625 (29.7-42, 42-50 MHz)			
RECEIVER	LOWBAND	VHF	UHF	
Frequencies:	29.7-42, 35-50 MHz	136-174 MHz	403-470, 450-512 MHz	
Hum and Noise:	-45dB @ 20/25kHz	-45dB @ 12.5kHz, -50dB @ 25kHz	-45dB @ 12.5kHz, -50dB @ 25kHz	
Sensitivity (12dB SINAD): EIA	.30 µV	.25 µV	.25 µV	
Sensitivity (20dB SINAD): ETS	.50 µV	.50 µV	.50 µV	
HT1250 Channel Spacing:	20/25kHz	12.5/15/20/25/30kHz	12.5/15/20/25/30kHz	
Intermodulation:	70dB	70dB	70dB	
Adjacent Channel Selectivity:	60dB @ 12.5kHz/70dB @ 25kHz	60dB @ 12.5kHz/70dB @ 25kHz	60dB @ 12.5kHz/70dB @ 25kHz	
Spurious Rejection:	70dB	70dB	70dB	
Rated Audio:	0.5 W	0.5 W	0.5 W	
Audio Distortion @ Rated Audio:	3% typical	3% typical	3% typical	
Audio Response: (300 - 3000 Hz)	+1 to -3dB	+1 to -3dB	+1 to -3dB	
Conducted Spurious Emission FCC Part 15:	-57dBm < 1 GHz, -47dBm > 1 GHz	-57dBm < 1 GHz, -47dBm > 1 GHz	-57dBm < 1 GHz, -47dBm > 1 GHz	
TRANSMITTER	LOWBAND	VHF	UHF	
Frequencies:	29.7-42, 35-50 MHz	136-174 MHz	403-470, 450-512 MHz	
Power Output:	1-6 W	1-5 W	1-4 W	
Frequency Stability (-30°C to +60°C, +25° Ref.):	±10 ppm	±5 ppm @ 25kHz, ±2.5 ppm @ 12.5kHz	±5 ppm @ 25kHz, ±2.5 ppm @ 12.5kHz	
Modulation Limiting:	+5.0 @ 20kHz	±2.5 @ 12.5kHz/±4.0 @ 20kHz/+5.0 @ 25kHz	±2.5 @ 12.5kHz/±4.0 @ 20kHz/+5.0 @ 25kHz	
Spurs/Harmonics:	-36dBm < 1 GHz, -30dBm > 1 GHz	-36dBm < 1 GHz, -30dBm > 1 GHz	-36dBm < 1 GHz, -30dBm > 1 GHz	
Channel Spacing:	20/25kHz	12.5/20/25kHz	12.5/20/25kHz	
FM Hum & Noise:	-40dB typical	-40dB typical	-40dB typical	
Adjacent Channel Power:	-60dB @ 12.5, -70dB @ 25kHz	-60dB @ 12.5, -70dB @ 25kHz	-60dB @ 12.5, -70dB @ 25kHz	
Audio Response: (300 - 3000 Hz)	+1 to -3dB	+1 to -3dB	+1 to -3dB	
Audio Distortion:	3% typical	3% typical	3% typical	
FM Modulation:	25kHz	12.5kHz 25/30kHz	12.5kHz 25kHz	
	16KOF3E	11KOF3E 16KOF3E	11KOF3E 16KOF3E	

PORTABLE MILITARY STANDARDS 810 C, D, & E

	MIL-STD 810C	MIL-STD 810D	MIL-STD 810E
	Method, Proc/Cat	Method, Proc/Cat	Method, Proc/Cat
Low Pressure:	500.1: I	500.2: II	500.3: II
High Temp:	501.1: I, II	501.2: I, II	501.3: I, II
Low Temp:	502.1: II	502.2: I, II	502.3: I, II
Temp Shock:	503.1: I	503.2: I	503.3: I
Solar Radiation:	505.1: I	505.2: I	505.3: I
Rain:	506.1: I, II	506.2: I, II	506.3: I, II
Humidity:	507.1: II	507.2: II, III	507.3: II, III
Salt Fog:	509.1: I	509.2: I	509.3: I
Dust:	510.1: I	510.2: I	510.3: I
Vibration:	514.2: VIII, X	514.3: I	514.4: I
Shock:	516.2: I, II, V	516.3: I, IV	516.4: I, IV

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	-30 C to +60° C
Storage Temperature:	-55 C to +85° C
Humidity:	95% RH @ 8 Hr.
ESD:	IEC 801-2 KV
Water Intrusion:	IP54

FACTORY MUTUAL APPROVALS

The HT Series 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.



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MD-EU-HT1250

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