

specifications

GENERAL	LOWBAND	VHF/UHF	
HT750 Channel Capacity:	4 or 16	4 or 16	
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
With NiMH High Capacity Battery:	11 hrs	8 hrs	11 hrs
With IMPRES NiMH Battery:	17 hrs	11 hrs	17 hrs
With IMPRES NiMH FM Battery:	16 hrs	10 hrs	16 hrs
With IMPRES Li-ion Battery:	18 hrs	11 hrs	18 hrs
FCC Description:	AZ489FT3794 (136-174 MHz), AZ489FT4826 (403-470 MHz), AZ489FT4834 (450-512 MHz), AZ489FT1625 (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
HT750 Channel Spacing:	20/25kHz	12.5/20/25kHz	12.5/20/25kHz
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 Method Proc/Cat	MIL-STD 810D Method Proc/Cat	MIL-STD 810E 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-HT750

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