

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: | 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 |
| HT1250 Channel Spacing: | 20/25kHz | 12.5/15/20/25/30kHz | 12.5/15/20/25/30kHz |
| Intermodulation: | 70dB | PLL Steps 2.5, 3, 125kHz | PLL Steps 2.5, 3, 125kHz |
| Adjacent Channel Selectivity: | 60dB @ 12.5kHz/70dB @ 25kHz | 70dB | 70dB |
| Spurious Rejection: | 70dB | 60dB @ 12.5kHz/70dB @ 25kHz | 60dB @ 12.5kHz/70dB @ 25kHz |
| Rated Audio: | 0.5 W | 70dB | 70dB |
| Audio Distortion @ Rated Audio: | 3% typical | 0.5 W | 0.5 W |
| Audio Response: (300 - 3000 Hz) | +1 to -3dB | 3% typical | 3% typical |
| Conducted Spurious Emission FCC Part 15: | -57dBm < 1 GHz, -47dBm > 1 GHz | +1 to -3dB | +1 to -3dB |
| | | -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.

Rassbach Communications



Rassbach Communications

405 N. Hastings Pl.
Eau Claire, WI 54703
(800) 924-2612

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MD-EU-HT1250

www.rassbachcommunications.com

HT1250™ Portable Radio

Available in Lowband, VHF, and UHF
Operates on Conventional Systems



The unique versatility of the HT1250 allows its customization to change with your needs.

HT1250 Powerful and Adaptable

- *Small, Lightweight and Durable*
- *Available in Limited and Full Keypad Models*
- *12.5/25kHz Switchable Channel Spacing*
- *Clock with Alarm*
- *Battery Status Indicator*
- *Telephone Interconnect Capable*
- *Option Board Capabilities*

X-Pand Voice Compression
Crisper, clearer audio quality

6 Programmable Front and Side Buttons
Easy access to favorite features

Adjustable Power Levels
Saves battery life

Dual Priority Scan
Frequently scan higher priority channels

Repeater Talkaround
Unit-to-unit communications bypassing the repeater

Telephone Interconnect Capable
Make and receive phone calls with the radio

Front Panel Programmable Phone List
Easily store and retrieve favorite phone numbers

128 Channels (16 Zones)

Programmable Emergency Button
Sound alarm or alert dispatcher in an emergency situation

Escalert™ Call Features
Ensures important signals are heard

Internal VOX
Hands-free operation with headset

14-Character Alphanumeric Display with User-Friendly Icons
Information is clear and easy to read

Control Buttons
Menu, navigation, and exit functions

Quik Call II™ and MDC1200 Signaling
Send and receive information in a variety of ways, including:

- **Push-to-Talk ID (Encode/Decode)**
Identify your outgoing calls and incoming callers

- **Selective Call (Encode/Decode)**
Send and receive a call from a specific group or individual

- **Call Alert (Encode/Decode)**
Inform unavailable users that you're trying to reach them, and receive alerts of incoming calls when you're a short distance away from your radio

- **Radio Check (Encode/Decode)**
Learn whether another user's radio is activated, and let others check your radio status

- **Emergency (Encode)**
Sounds an alarm or alerts dispatcher in urgent situations

- **Selective Radio Inhibit (Decode)**
Allows system owner to disable stolen or missing radios

HT1250™ The Versatile Radio

The HT1250™ portable radio is an essential tool for growing organizations because of its unique versatility. The radio offers a full menu of advanced signaling features, including paging or calling selective radios or groups. Users can store information such as phone numbers, call lists and radio IDs for easy access. And with Motorola's unique X-Pand™ technology, audio clarity is superb—even in noisy surroundings. The large LCD display is extremely helpful in large communication networks and critical situations. The radio of choice is the HT1250™ portable. It's the radio that changes with your needs.