

specifications

GENERAL	LOW BAND	VHF	UHF
Channel Capacity:	4	4	4
Typical RF Output:	Low Power High Power	1-25W 25-45W	1-25W 25-40W
Frequency:	29.7-36 MHz, 36-42 MHz, 42-50 MHz	136-174 MHz	403-470 MHz, 450-512 MHz
Dimensions: (HxWxD)	Low Power High Power	2.2 x 6.93 x 6.97 inch (56 x 176 x 177 mm) 2.2 x 6.93 x 7.44 inch (56 x 176 x 189 mm)	2.2 x 6.93 x 6.97 inch (56 x 176 x 177 mm) 2.2 x 6.93 x 7.44 inch (56 x 176 x 189 mm)
Weight:	Low Power (1-25W) High Power	3.15 lbs (1.43 Kg) 3.5 lbs (1.59 Kg)	3.15 lbs (1.43 Kg) 3.5 lbs (1.59 Kg)
Current Drain:	Standby Rx @ rated, external 8 ohm speaker	.4A 1.5A	.3A 1.5A
Transmit:	17A	7A @ 25W, 13.5 A @ 45W	8A @ 25W, 13.5 A @ 40W
FCC Description:	AZ492FT1627 (29.7-36 MHz) AZ492FT1628 (36-42 MHz) AZ492FT1626 (42-50 MHz)	AZ492FT3796 (25W) AZ492FT3795 (45W)	AZ492FT4835 (25W, 403-470 MHz) AZ492FT4830 (40W, 403-470 MHz) AZ492FT4829 (25W, 450-512 MHz) AZ492FT4836 (40W, 450-512 MHz)

TRANSMITTER

Channel Spacing:	20/30 kHz	12.5/20/25 kHz	12.5/20/25 kHz
Frequency Stability: (-30° C to +60° C, +25° Ref.)	± 5 ppm	± 2.5 ppm	± 2.5 ppm
Power Output:	Low Power High Power	1-25W 25-45W	1-25W 25-40W
Modulation Limiting:	± 5.0	±2.5 @ 12.5 kHz, ±4.0 @ 20 kHz, ±5.0 @ 25 kHz	±2.5 @ 12.5 kHz, ±4.0 @ 20 kHz, ±5.0 @ 25 kHz
FM Hum and Noise:	-45dB (25 kHz)	-40dB 12.5 kHz and -45dB 25 kHz	-40dB 12.5 kHz and -45dB 25 kHz
Conducted/Radiated Spurious Emission:	-26dBm < 1 GHz and -26dBm > 1 GHz	-36dBm < 1 GHz and -30dBm > 1 GHz	-36dBm < 1 GHz and -30dBm > 1 GHz
Adjacent Channel Power:	-70dB	-60dB @ 12.5 kHz and -70dB @ 25 kHz	-60dB @ 12.5 kHz and -70dB @ 25 kHz
Audio Response:	TIA 603 & ETS300 & CEPT 84 Annex 2	TIA 603 & ETS300 & CEPT 84 Annex 2	ETS300 & CEPT 84 Annex 2
Audio Distortion	3% Typical	3% Typical	3% Typical
FM Modulation:	16KOF3E (25 kHz)	16KOF3E (25 kHz), 11KOF3 (12.5 kHz)	16KOF3E (25 kHz), 11KOF3 (12.5 kHz)

RECEIVER

Frequency:	29.7-36 MHz, 36-42 MHz, 42-50 MHz	136-174 MHz	403-470 MHz, 450-512 MHz
Channel Spacing:	20 kHz	12.5/20/25 kHz	12.5/20/25 kHz
Frequency Stability: (-30° C to +60° C, +25° Ref.)	± 5 ppm	± 2.5 ppm	± 2.5 ppm
Sensitivity: (12dB SINAD)	0.3 µV, 0.25 µV typical	0.3 µV, 0.23 µV typical	0.3 µV, 0.23 µV typical
Intermodulation:	80dB typical	75dB @ 12.5 kHz, 78dB @ 25 kHz	75dB @ 12.5 kHz, 75dB @ 25 kHz
Adjacent Channel Selectivity:	80dB	65dB @12.5 kHz, 80dB @ 20 kHz, 80dB @25 kHz	65dB @12.5 kHz, 75dB @ 20 kHz
Spurious Rejection:	80dB	75dB @12.5 kHz, 80dB @ 25 kHz	70dB @12.5 kHz, 75dB @ 25 kHz
Rated Audio: (external audio with 4 ohm speaker)	3W Internal Speaker, 13W External Speaker	3W Internal Speaker, 13W External Speaker	3W Internal Speaker, 13W External Speaker
Audio Distortion @ Rated Audio:	3% typical	3% typical	3% typical
Hum and Noise:	-45dB	-40dB 12.5 kHz, -45dB 25 kHz	-40dB 12.5 kHz, -45dB 25 kHz
Audio Response:	TIA603 & ETS300 & CEPT 84 Annex 2	TIA603 & ETS300 & CEPT 84 Annex 2	TIA603 & ETS300 & CEPT 84 Annex 2
Conducted Spurious Emission:	-57dBm < 1 GHz, -47dBm > 1 GHz	-57dBm < 1 GHz, -47dBm > 1 GHz	-57dBm < 1 GHz, -47dBm > 1 GHz

ENVIRONMENTAL

Operating Temperature:	-30° to +60° C	-30° to +60° C	-30° to +60° C
Storage Temperature:	-55° to +85° C	-55° to +85° C	-55° to +85° C
Thermal Shock :	-40° to +85° C	-40° to +85° C	-40° to +85° C
Humidity:	95% RH @ 8 Hr.	95% RH @ 8 Hr.	95% RH @ 8 Hr.
ESD:	IEC 801-2 KV	IEC 801-2 KV	IEC 801-2 KV
Water Intrusion:	IP54	P54	P54
Packing Test:	Impact Test	Impact Test	Impact Test

PORTABLE MILITARY STANDARDS 810 C, D, & E*

Applicable MIL-STD	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:	502.1/2	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:	506.1/2	506.2/2	506.3/2
Humidity:	507.1/2	507.2/2, 3	507.3/3
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	514.4/1
Shock:	516.2/1, 5	516.3/1	516.4/1

* MIL Standards - The CDM mobile radio is designed to meet most requirements for MIL STD 810 C, D, and E.



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Motorola CDM750™

The Practical Radio



Helps enhance productivity with simple,
yet high-performing functionality.

Multicolored LED Indicators

Visible feedback of transmit,
scan, and monitor status

4 Channels

MDC 1200 Encode Signaling

Sends information via
digital signals

Caller ID Encode

Allows users to identify
you as the caller

Selective Radio Inhibit

Can be remotely deactivated
if lost or stolen

X-Pand™ Audio Enhancement

Crisp, clear audio quality

2 Customizable Function Buttons (P1, P2)

Program for instant access to your favorite features

Monitor/Permanent Monitor

Allows continuous
channel monitoring

Repeater Talkaround

Unit-to-unit communication,
bypassing the
repeater

Scan

Monitors channels
for activity

Additional Features

- 4 Channels
- 12.5/25 kHz Switchable Channel Spacing
- Data Capable
- Large, Easy to Use Controls
- 4 Channel Selector Buttons
- Large Textured PTT Button on Palm Microphone
- Powerful, Front-Projecting Speaker
- Rugged, Die-Cast Chassis with Polycarbonate Outer Shell
- Remote Mountable Control Head

Motorola Quality:

A Practical Radio That Gets the Job Done.

Ideal for organizations with moderate communication requirements, the CDM750™ mobile radio provides simple yet high-performing functionality. Its streamlined features include the essentials to keep users communicating steadily and efficiently – including limited signaling capabilities and two customizable function buttons. Motorola's flexible X-Pand™ audio enhancement technology and a large front-projecting speaker ensure clear, crisp sound, even in noisy environments. The practical CDM750™ radio gives you virtually everything you need to get the job done.