

KEY FEATURES

Supports two simultaneous voice or data paths in digital Time-Division Multiple-Access (TDMA) mode.

Doubles the number of users you can have on a single licensed 12.5 kHz channel.

Integrates voice and data to increase operational efficiency.

100% continuous full duty cycle up to 45W VHF and 40W UHF.

Integrated power supply.

LEDs clearly indicate transmit and receive modes in both channel slots as well as operation in digital or analog modes.

Rack-mount is standard; wall-mount kit also available.

Sturdy handles make installation and handling easier.

Automated battery back-up available (battery sold separately).

Supports applications including MOTOTRBO Text Messaging Services and MOTOTRBO Location Services (GPS location tracking).

MOTOTRBO is a complete two-way radio system that includes portable and mobile radios, repeaters, accessories and applications.

MOTOTRBO™

DGR™ 6175 Repeater



Shift into Digital.

The next-generation professional two-way radio communications solution is here, with more performance, productivity and value—thanks to digital technology that delivers increased capacity and spectrum efficiency, integrated data communications and enhanced voice communications.

MOTOTRBO offers you a private, standards-based, cost-effective solution that can be tailored to meet your unique coverage and feature needs. This versatile portfolio provides a complete system of portable radios, mobile radios, repeaters, accessories and data applications—a complete solution.


MOTOTRBO DGR 6175 Repeater Specifications

General	VHF	UHF
Channel Capacity	1	
Typical RF Output	1 - 25 W 25 - 45 W	1 - 25 W 25 - 40 W
Frequency	136 - 174 MHz	403-470 MHz
Dimensions (HxWxL)	5.22 x 19 x 11.67 in (132.6 x 482.6 x 296.5 mm)	
Weight	31 lbs. (14 kg)	
Current Drain: Standby Transmit	1 A (1 A DC typical) 3.8 A (11 A DC typical)	
Operating Temperature Range	-30°C to +60°C	
Max Duty Cycle	100%	
FCC Description	ABZ99FT3026 ABZ99FT3025	ABZ99FT4026 ABZ99FT4025

Receiver	VHF	UHF
Frequencies	136 - 174 MHz	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz	
Frequency Stability (-30° C, +60° C, +25° C)	+/- 0.5 ppm	
Analog Sensitivity (12dB SINAD)	0.3 uV 0.22 uV (typical)	
Digital Sensitivity	5% BER: 0.3 uV	
Intermodulation (TIA603C)	78 dB	75 dB
Adjacent Channel Selectivity TIA603 TIA603C	65 dB @ 12.5 kHz, 75 dB @ 25 kHz 50 dB @ 12.5 kHz, 75 dB @ 25 kHz	
Spurious Rejection (TIA603C)	80 dB	75 dB
Audio Distortion @ Rated Audio	3% (typical)	
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz	
Audio Response	TIA603C	
Conducted Spurious Emission	-57 dBm	

Transmitter	VHF	UHF
Frequencies	136 - 174 MHz	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz	
Frequency Stability (-30° C, +60° C, +25° C)	+/- 0.5 ppm	
Power Output	25-45 W	25-40 W
Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz +/- 5.0 kHz @ 25 kHz	
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz	
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz	
Adjacent Channel Power (TIA603C)	60 dB @ 12.5 kHz 70 dB @ 25 kHz	
Audio Response	TIA603C	
Audio Distortion	3%	
FM Modulation	12.5 kHz: 11K0F3E 25 kHz: 16K0FE	
4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE	
Digital Vocoder Type	AMBE++	
Digital Protocol	ETSI-TS102 361-1	

Quality / Reliability

 Backed by a two-year Standard Warranty



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LE-MTRBO-6175-PS

Specifications subject to change without notice. All specifications shown are typical.

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