

DR 3000 Repeater



- 1 100% continuous full duty cycle at 25-40W
- 2 Supports two simultaneous voice or data paths in digital TDMA mode.
- 3 Integrated power supply.
- 4 Operates in analogue or digital mode, bright, clear, colored LEDs indicate mode.
- 5 LEDs clearly indicate transmit and receive modes in both channel slots.
- 6 Sturdy handles make installation and handling easier.

Repeater Standard Package

- Repeater
- Power Cord

Specifications

Channel Capacity	1
Typical RF Output	
Low Power	1-25 W
High Power	25-40 W
Frequency	403-470 MHz
Dimensions (HxWxL)	132.6 x 482.6 x 296.5 mm
Weight	14 kg
Voltage Requirements	100-240 V AC (13.6 V DC)
Current Drain: Standby	0.5A (1A DC typical)
Transmit	1.5A (11A DC typical)
Operating Temperature Range	-30°C to +60°C
Max Duty Cycle	100%

RECEIVER

Frequencies	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz
Frequency Stability	+/- 0.5 ppm
(-30° C, +60° C, +25° C)	
Analogue Sensitivity	0.30 uV (12 dB SINAD)
	0.22 uV (typical) (12 dB SINAD)
	0.4uV (20 dB SINAD)
Digital Sensitivity	5% BER: 0.3 uV
Intermodulation	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz,
	70 dB @ 25 kHz
Spurious Rejection	70 dB
Audio Distortion @ Rated Audi	o 3% (typical)
Hum and Noise	-40 dB @ 12.5 kHz
	-45 dB @ 25 kHz
Audio Response	+1, -3 dB
Conducted Spurious Emission	-57 dBm < 1GHz

TRANSMITTER

Channel Spacing12.5 kHz / 25 kHzFrequency Stability+/- 0.5 ppm(-30° C, +60° C, +25° C)Power OutputLow Power1-25 WHigh Power25-40 WModulation Limiting+/- 2.5 kHz @ 12.5 kHzFM Hum and Noise-40 dB @ 12.5 kHzConducted / Radiated Emission-36 dBm < 1 GHz-30 dBm > 1 GHz-70 dB @ 12.5 kHz-70 dB @ 25 kHz		
Frequency Stability+/- 0.5 ppm(-30° C, +60° C, +25° C)Power OutputLow Power1-25 WHigh Power25-40 WModulation Limiting+/- 2.5 kHz @ 12.5 kHz+/- 5.0 kHz @ 25 kHz+/- 5.0 kHz @ 25 kHzFM Hum and Noise-40 dB @ 12.5 kHz-45 dB @ 25 kHz-45 dB @ 25 kHzConducted / Radiated Emission-36 dBm < 1 GHz	Frequencies	403-470 MHz
(-30° C, +60° C, +25° C) Power Output Low Power 1-25 W High Power 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 -30 dBm > 1 GHz Adjacent Channel Power -60 dB @ 12.5 kHz -70 dB @ 25 kHz Audio Response +1, -3 dB	Channel Spacing	12.5 kHz / 25 kHz
Power Output Low Power 1-25 W High Power 25-40 W Modulation Limiting +/- 2.5 kHz @ 12.5 kHz FM Hum and Noise -40 dB @ 12.5 kHz FM Hum and Noise -40 dB @ 12.5 kHz Conducted / Radiated Emission -36 dBm < 1 GHz	Frequency Stability	+/- 0.5 ppm
Low Power High Power Modulation Limiting FM Hum and Noise Conducted / Radiated Emission Adjacent Channel Power Audio Response 1-25 W +/- 2.5 kHz @ 12.5 kHz -40 dB @ 12.5 kHz -40 dB @ 12.5 kHz -45 dB @ 25 kHz -30 dBm < 1 GHz -30 dBm > 1 GHz -70 dB @ 25 kHz -70 dB @ 25 kHz -70 dB @ 25 kHz	(-30° C, +60° C, +25° C)	
High Power25-40 WModulation Limiting+/- 2.5 kHz @ 12.5 kHzFM Hum and Noise-40 dB @ 12.5 kHzFM Hum and Noise-40 dB @ 12.5 kHzConducted / Radiated Emission-36 dBm < 1 GHz	Power Output	
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+/- 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 -30 dBm > 1 GHz -70 dB @ 12.5 kHz -70 dB @ 25 kHz Audio Response +1, -3 dB	High Power	25-40 W
FM Hum and Noise -40 dB @ 12.5 kHz -45 dB @ 25 kHz -45 dB @ 25 kHz Conducted / Radiated Emission -36 dBm < 1 GHz	Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz
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-70 dB @ 25 kHz Audio Response +1, -3 dB		-30 dBm > 1 GHz
Audio Response +1, -3 dB	Adjacent Channel Power	-60 dB @ 12.5 kHz
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	Audio Response	+1, -3 dB
Digital Vocoder Type AMBE++	Digital Vocoder Type	AMBE++
Digital Protocol ETSI-TS102 361-1	Digital Protocol	ETSI-TS102 361-1
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