

ML-3200 SERIES MOBILE RADIO

- 2 OR 45 WATTS / 32 CHANNELS / 7 NOAA CHANNELS
- EXTERNAL SQUELCH CONTROL
- PROGRAMMABLE 12.5 / 25 KHZ BY CHANNEL
- CTCSS/DCS TONES, TWO-TONE DECODER & VOX OPERATION
- DB-15 PIN CONNECTOR FOR DATA APPLICATIONS
- MEETS MIL-STD 810F



**ROCK
SOLID**

MIDLAND RADIO CORPORATION
5900 PARRETTA DRIVE, NORTH KANSAS CITY, MO 64120 USA
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Specifications	VHF Model ML-3215	UHF Model ML-3245
Frequency Range	148 - 174 MHz	440 - 470 MHz
Channels	32	
Weather Channels	7	
Channel Spacing	15 / 25 / 30 / 12.5 kHz	25 / 12.5 kHz
PLL Step	2.5 / 5.0 / 6.25 / 7.5 kHz	5.0 / 6.25 kHz
Channel Spread	26 MHz	40 MHz
Antenna Impedance	50 Ω	
Input Voltage	13.8V DC +/-20%	
Current Drain (standby, receive @ max. volume, transmit @ high power)	.14 A, .65 A, 7.5 A	.14 A, .65 A, 8.4 A
Operating Temperature	-22°F to +140°F (-30°C to +60°C)	
Frequency Stability	± 2.5%	
Dimensions (W x H x D)	6-5/16" x 1-3/4" x 6" (60 x 44 x 152 mm)	
Weight	2lbs., 8 oz. (1.3 km)	
FCC Identifier	07KML3215	07KML3245
FCC Compliance	Parts 90, 90.210	Parts 90, 90.210
IC Certification Number	3690A-ML3215	3690A-ML3245

Receiver Specifications

(measurement procedures per ANSI/TIA/EIA-603)

Sensitivity (12dB S I N A D)	.25 μV @ 12.5 & 25 kHz
Selectivity	60 dB @ 12.5 & 25 kHz
Intermodulation	60 dB @ 12.5 kHz; 65 dB @ 25 kHz
Spurious Response	65 dB
Audio Output (Method @ <10% THD Level)	4W (Int. & Ext) @ 8 Ω

Transmitter Specifications

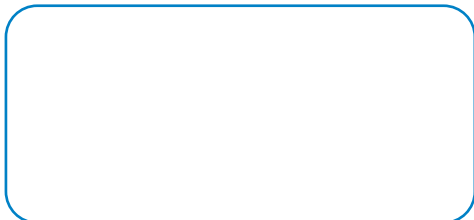
(measurement procedures per ANSI/TIA/EIA-603)

RF Output (programmable by channel)	2 or 45 Watts
Spurious and Harmonic Emissions	65 dB
Modulation	10K6F3E, 15K0F3E
FM Hum and Noise	40 dB @ 12.5 & 25 kHz
Audio Distortion	2%

MIL-STD Methods / Procedures
Standard 810F Method / Procedure

Humidity	507.4 / Proc. I
Blowing Dust	510.4 / Proc. I
Vibration	514.5 / Proc. I
Shock	516.5 / Proc. I, IV

FOR MORE INFORMATION, CONTACT:

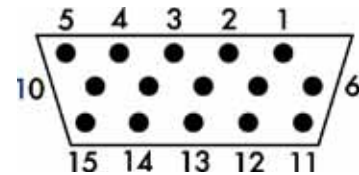

 Heavy Duty DTMF Mobile Mic (ACC-709)
Heavy Duty Mobile Mic (ACC-732)

 Heavy Duty Remote Speaker
(AA-1470A)

 Base Station Power Supply
110V/220V AC (MS-0730)

 Base Station Microphone
(ACC-702)

Other Options Not Shown

 Heavy Duty Mobile Microphone (ACC-4473)
PC Programming Software (Win 95 or later)
on CD-ROM (ACC-907CD)
PC Programming Interface Cable (ACC-2032)
ML-3215/ML-3245 Service Manual (680-100-2013)

DATA CONNECTOR PIN-OUT

- | | |
|--------------------|--------------------|
| 1 - AUDIO OUT | 8 - ALERT TONE OUT |
| 2 - TX TONES | 9 - CALL LED |
| 3 - BUSY / SQUELCH | 10 - MIC CONTROL |
| 4 - CALL | 11 - AUDIO MUTE |
| 5 - MONITOR | 12 - TX ENABLE |
| 6 - PTT IN | 13 - GROUND |
| 7 - RX AUDIO IN | 14 - 8V |

15 - NO CONNECTION

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