Radius mobile radios

Specifications

General

	VHF						UHF						800 MHz		
Model Series*:	D33LRA			D43LRA			D34LRA			D44LRA			D35LRA		
Models:	M100	M206	M214	M100	M206	M214	M100	M206	M214	M100	M206	M214	M100	M206	M214
Channel Capability:	2	6	14	2	6	14	2	6	14	2	6	14	2	6	14
Typical RF Output:	25W			40W			25W			35W			15W 12W in talkaround mode		
Frequency:	136-162 MHz 146-174 MHz			146-174 MHz			449-470 MHz			403-430 MHz 449-470 MHz			Tx: 806-825, 851-870 Rx: 851-870 MHz		
FCC Designation:	ABZ89FT3712			ABZ89FT3730			ABZ89FT4713			ABZ89FT4741 (403-430 MHz) ABZ89FT4725 (449-470 MHz)			ABZ89FT5677		
Dimensions (H × W × D):	2″ × 7″ × 7¾″ (50.8 × 178 × 198 mm)														
Weight:	54 oz. (1.51 kg)														
Primary Voltage Input:	13.8V DC														
Typical Current Drain Receive (5W):	1.5A														
Transmit:	7.0A			11.0A			7.5A			10.0A			6.0A		
Standby:	400 mA														
Squelch Capability:	Tone Coded Squelch, Digital Coded Squelch and/or Carrier Squelch														

Transmitter

	VHF	UHF	800 MHz
Spurious & Harmonic Emissions:	−57 dB (25W) −60 dB (40W)	−57 dB (25W) −60 dB (35W)	−55 dB
Frequency Stability: (−30°C to +60°C 25°C ref.)	±0.0005%	±0.0005%	±0.00025%
Modulation:	16F1, 16F3, 15F2		
Maximum Frequency Separation (MHz):	26 (136-162 MHz) 28 (146-174 MHz)	27 (403-430 MHz) 21 (449-470 MHz)	19 MHz
Audio Distortion:	5% measured per EIA		
Output Impedance:	50 Ohms		
Modulation Sensitivity:	80 mV rms for 60% maximum deviation at 1000 Hz		

Receiver

	VHF	UHF	800 MHz
Channel Spacing:	30 kHz	25 kHz	25 kHz
Sensitivity:	0.30 μV	0.30 μV	0.40 μV
Intermodulation EIA SINAD:	78 dB	75 dB	70 dB
Spurious & Image Rejection:	80 dB	75 dB	70 dB
Selectivity EIA SINAD:	80 dB	75 dB	68 dB
Audio Output:	3W (5W with optional external speaker) @ less than 5% distortion		
Frequency Stability: (−30°C to +60°C 25°C ref.)	±0.0005%	±0.0005%	±0.00025%
Maximum Frequency Separation (MHz):	26 (136-162 MHz) 28 (146-174 MHz)	27 (403-430 MHz) 21 (449-470 MHz)	19 MHz
Input Impedance:		50 Ohms	

*Low Band Mobiles are also available. Refer to RC-20-11.

Vibration and Shock Methods

Standard	Method	Procedure	Test	Radio Performance
MIL-STD 810C Curve: W	514.2[1]	VIII	Vibration	Meets or exceeds published specs following vibration
	516.2[2]	I	Shock	Meets or exceeds published specs following shock.
EIA RS-152B and EIA RS-204C	14.3 24.2		Vibration	Remains operational during vibration and meets or exceeds published specs after vibration.
EIA RS-152B and EIA RS-204C	15 25		Shock	Meets or exceeds published specs following shock.

(1)—Optimum performance for shock and vibration is achieved through proper installation using the optional extra stability mount.

(2)—Ground Equipment.

For further information contact:

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Specifications subject to change without notice.

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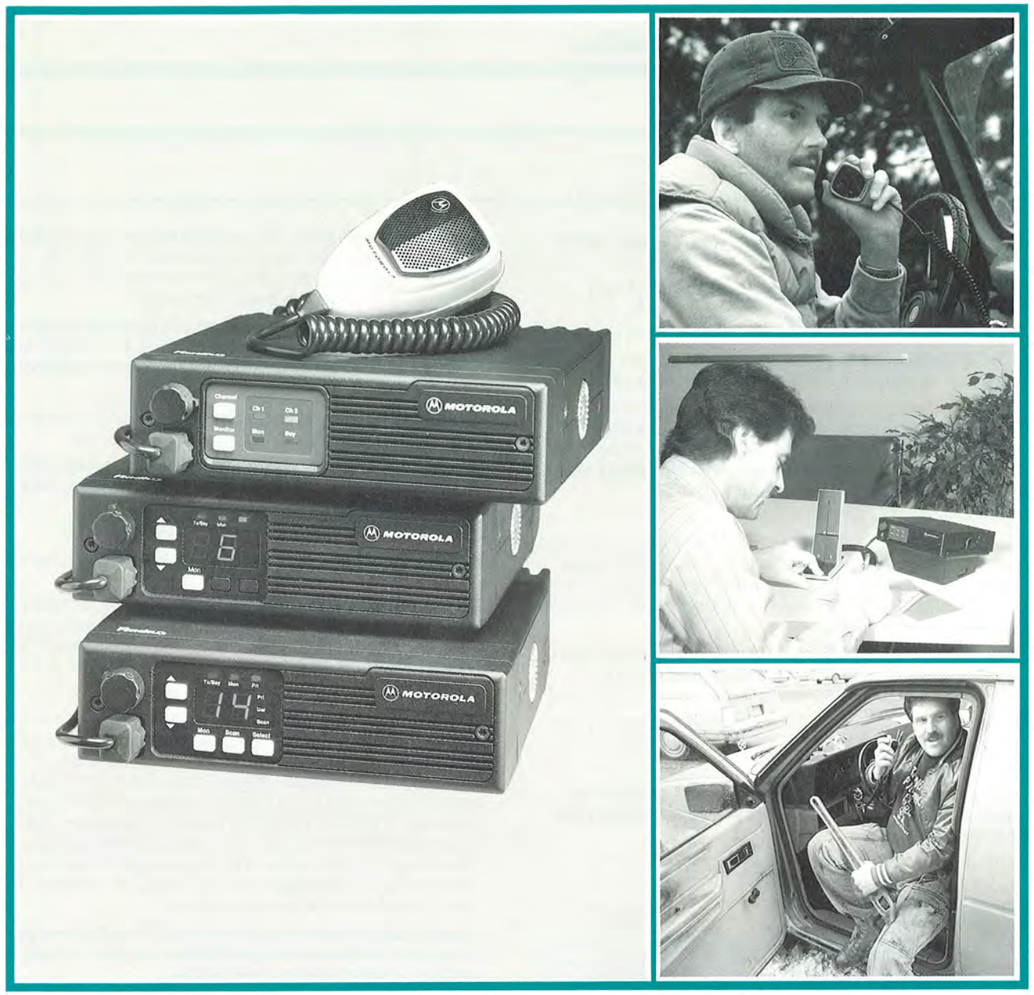

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