

MAINTENANCE MANUAL

138-174 MHz MONITOR RECEIVER (WITH NOISE BLANKER)



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SYSTEM BOARD & ASSOCIATED ASSEMBLIES	LBI30665 (DF4101)
MAINTENANCE	LBI30687 (DF1120)
RF ASSEMBLY & MIXER/IF	LBI4980 (DF1107)
OSCILLATOR/MULTIPLIER	LBI30147 (DF1106)
IF-DETECTOR	LBI30049 (DF1105)

SPECIFICATIONS*

Dimensions	3.5 inches (8.89 cm)						
Height	8.4 inches (21.34 cm)						
Width	10.6 inches (26.92 cm)						
Depth							
Weight	9.25 pounds (4.2 Kg)						
Input Power	15 Watts						
Input Voltage	121/242 VAC, 50/60 Hz						
Regulated DC Voltages	15 VDC @ 0.8 Amperes 10.0 VDC @ 0.250 Amperes						
Current Drain (@ 121 VDC)							
Standby	0.05 Amperes						
Receive	0.12 Amperes						
Audio Output (to 3.2-ohm speaker)	3 Watts at less than 5% distortion						
Sensitivity							
12-dB SINAD (EIA Method)	0.175 μ V						
20-dB Quieting Method	0.25 μ V						
Selectivity							
EIA Two-Signal Method	-90 dB @ 30 kHz -85 dB @ 25 kHz						
Spurious Response	-95 dB						
Intermodulation (EIA)	-75 dB						
Frequency Stability	$\pm 0.0005\%$						
Modulation Acceptance	± 7 kHz (narrow-band)						
Squelch Sensitivity							
Fixed Squelch	6 dB SINAD opening						
Temperature Range	-30°C to +60°C (-22°F to +140°F)						
Maximum Frequency Separation (Multi-Frequency Units)	<table> <tr> <th><u>Full Specifications</u></th><th><u>3 dB Degradation</u></th></tr> <tr> <td>138-155 MHz</td><td>1.60 MHz</td></tr> <tr> <td>150.8-174 MHz</td><td>1.80 MHz</td></tr> </table>	<u>Full Specifications</u>	<u>3 dB Degradation</u>	138-155 MHz	1.60 MHz	150.8-174 MHz	1.80 MHz
<u>Full Specifications</u>	<u>3 dB Degradation</u>						
138-155 MHz	1.60 MHz						
150.8-174 MHz	1.80 MHz						
Frequency Response	Within +1 and -8 dB of a standard 6 dB per-octave de-emphasis curve from 300 to 3000 Hz (1000 Hz reference)						
RF Input Impedance	50 ohms						

* These specifications are intended primarily for use of the serviceman. Refer to the appropriate Specification Sheet for the complete specifications.

WARNING

No one should be permitted to handle any portion of the equipment that is supplied with high voltage; or to connect any external apparatus to the units while the units are supplied with power. KEEP AWAY FROM LIVE CIRCUITS!