

®

(Noise Blanker version is LBI-30023)

DUAL FRONT END 138-174 MHz



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DESCRIPTION AND MAINTENANCE	LBI30111 (DF1110)
RF AMPLIFIER ASSEMBLY AND MIXER/IF BOARD	LBI4980 (DF1107)
OSCILLATOR/MULTIPLIER BOARD	LBI4984 (DF1106)
RF STEERING SWITCH, MIXER/IF SWITCH/ 2ND CONVERTER	LBI30038 (DF1110)

SPECIFICATIONS*

SENSITIVITY

DFE

12-dB SINAD
20-dB Quieting

Receiver

With Pre-Ampl0.2 μ V
0.275 μ VWithout Pre-Ampl0.385 μ V
0.550 μ VSensitivity degraded not more than 1 dB from
standard receiver specifications

SELECTIVITY

EIA Two-Signal Method
20 dB Quieting Method-100 dB
-100 dB

INTERMODULATION (EIA)

-80 dB

SPURIOUS RESPONSE

-100 dB

MODULATION ACCEPTANCE

 ± 7 kHz (narrow-band)

FREQUENCY STABILITY

5C-ICOM with EC-ICOM
5C-ICOM or EC-ICOM
2C-ICOMS $\pm 0.0005\%$ (-40°C to $+70^{\circ}\text{C}$)
 $\pm 0.0002\%$ (0°C to $+55^{\circ}\text{C}$)
 $\pm 0.0002\%$ (-40°C to $+70^{\circ}\text{C}$)MAXIMUM FREQUENCY SEPARATION
(Multi-Frequency Units)138-155 MHz
150.8-174 MHzFull Specifications3 dB Degradation.900 MHz
1.0 MHz1.60 MHz
1.80 MHz

RF INPUT IMPEDANCE

50 ohms

CURRENT DRAIN (TYPICAL)

Non-matching IF's - 90 mA
Matching IF's - 65 mA*These specifications are intended primarily for the use of the serviceman. Refer to the
appropriate Specification Sheet for the complete specifications.

COMBINATION NOMENCLATURE

1st Digit	2nd Digit	3rd Digit	4th Digit
Frequency Capability	Options	Frequency Range	Oscillator Stability
A 1-Freq.	S Standard	56 138-155 MHz	A ± 5 PPM ($\pm 0.0005\%$)
D 2-Freq.	P UHS	66 150.8-174 MHz	B ± 2 PPM ($\pm 0.0002\%$)
E 3-Freq.			
F 4-Freq.			
G 5-Freq.			
H 6-Freq.			
J 7-Freq.			

WARNING

Although the highest DC voltage in the MASTR II receiver is +12 Volts DC, high current may be drawn under short circuit conditions. These currents can possibly heat metal objects such as tools, rings, watchbands, etc. enough to cause burns. Be careful when working near energized circuits.

High-level RF energy in the transmitter Power Amplifier assembly can cause RF burns.
KEEP AWAY FROM THESE CIRCUITS WHEN THE TRANSMITTER IS ENERGIZED!

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Printed in U.S.A.