



138-174 MHz, 110-WATT TRANSMITTER -MOBILE AND STATION

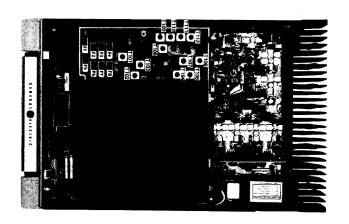


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DESCRIPTION AND MAINTENANCE	LBI-30433
EXCITER	LBI-30422
POWER AMPLIFIER	LRT_30282

SPECIFICATIONS*

Power Output

110 Watts (Adjustable from 35 to 110 Watts)

Crystal Multiplication Factor

12

Frequency Stability

2C-ICOMS

5C-ICOM with EC-ICOM 5C-ICOM or EC-ICOM

±0.0005% (-40°C to +70°C) ±0.0002% (0°C to +55°C) ±0.0002% (-40°C to +70°C)

Spurious and Harmonic Emission

At least 85 dB below full rated

Modulation

power output. Adjustable from 0 to ±5 kHz

Modulation Sensitivity

Audio Frequency Characteristics

swing with instantaneous modulation limiting.

75 to 120 Millivolts

Within +1 dB to -3 dB of a 6-dB/octave pre-emphasis from 300 to 3000 Hz per EIA standards. Post limiter filter per FCC and EIA.

Distortion

Less than 2% (1000 Hz) Less than 3% (300 to 3000 Hz)

Deviation Symmetry

Maximum Frequency Spread:

138-155 MHz

150.8-174 MHz

Duty Cycle

RF Output Impedance

0.5 kHz maximum

Full 1 dB Specifications Degradation 1.8 MHz 2.75 MHz 2.0 MHz 3.0 MHz

EIA 20% Intermittent (Mobile & Station) Continuous (Station) 50 ohms

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

_WARNING__

Although the highest DC voltage supplied to the MASTRTM II transmitter is 12 VDC, high currents may be drawn under short circuit conditions. These currents can possibly heat metal objects such as tools, rings, watchgands, 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 upon contact. KEEP AWAY FROM THESE CIRCUITS WHEN THE TRANSMITTER IS ENERGI ZED!