



GE Mobile Communications

851-870 MHz, 100-WATT TRANSMITTER

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DESCRIPTION AND MAINTENANCE	LBI-31778
EXCITER	LBI-31800
POWER AMPLIFIER	LBI-38134

SPECIFICATIONS*

POWER OUTPUT	100 Watts (adjustable from 10 watts to rated power output).
FCC FILING	KT-256-A2
CRYSTAL MULTIPLICATION FACTOR	48
FREQUENCY STABILITY	$\pm 0.0001\%$ (-30 C to +60 C)
SPURIOUS AND HARMONIC EMISSION (per EIA RS-152-B, Par. 4)	-13dBm output (conducted) -13dBm (Radiated)
MODULATION	Adjustable from 0 to ± 5 kHz swing with instantaneous modulation limiting.
MODULATION SENSITIVITY	50 TO 115 Millivolts
AUDIO FREQUENCY CHARACTERISTICS	Within + 1dB to -3dB 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%
DEVIATION SYMMETRY	0.5 kHz maximum
DUTY CYCLE	Continuous
RF OUTPUT IMPEDANCE	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 transmitter is + 24VDC, high currents may be drawn under short circuit conditions. These currents can heat metal objects such as tools, rings, watchbands, etc., enough to cause burns. Be careful when working near energized 24 Volt 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 ENERGIZED!

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Lynchburg, Virginia 24502

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