

GE Mobile Communications

MASTR® II 1850-870 MHz, 35 WATT TRANSMITTER

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EXCITER	. LBI-31800
POWER AMPLIFIER	

SPECIFICATIONS *

POWER OUTPUT 35 Watts rf (adjustable from 7 to 35 watts)

FCC FILING KT-260-A2

+/-0.0001% @ -22 to +140°F (-30 to +60°C) FREQUENCY STABILITY

SPURIOUS AND HARMONIC EMISSION -13 dBm below rated output (minimum) for conducted, -13 dBm below rated output (minimum) for radiated

(per EIA

RS-152-B, par. 4)

MODULATION Adjustable from 0 to +/-5 kHz swing with instantaneous

modulation limiting.

MODULATION SENSITIVITY 50 to 115 mV

MODULATING FREQUENCY 300 Hz to 3 kHz

RANGE (audio)

MODULATION DEVIATION (Voice/Tone) 3.75 kHz

AUDIO FREQUENCY From +1 to -3 dB of a 6 dB per octave

pre-emphasis over 300 Hz to 3 kHz (per EIA standards). **CHARACTERISTICS**

Post limiter filter per FCC and EIA.

AUDIO DISTORTION Less than 3%

DEVIATION SYMMETRY 0.5 kHz maximum

Continuous TRANSMITTER DUTY CYCLE

RF OUTPUT IMPEDANCE 50-Ohms, nonreactive at PA output connector.

9600 baud RF HIGH-SPEED DATA

RF HIGH-SPEED DATA 3.00 kHz

DEVIATION

RF LOW-SPEED DATA RATE 150 bps

RF LOW-SPEED DATA 0.75 kHz

DEVIATION

* These specifications are intended primarily for use during maintenance. Refer to the appropriate specification sheet for complete specifications.

WARNING

Although the highest dc voltage supplied to the transmitter is +24 Vdc, high currents 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 can cause rf burns upon contact. Keep away from these circuits when the transmitter is energized.

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