

MX SERIES

The evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

MX-100U

100 Watt UHF **Transmitter / Translator**



**Amplifier Field Tested
For Digital Service**

Field Tunable Output Filters

Broadband, Class AB Amplifier

**Adjacent Channel
Operation Capable**

Ferroresonant Power Supply

**Frequency Agile
Input and Output**

LARCAN

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MX100U SPECIFICATIONS

THE **MX Series** IS THE NEW STANDARD IN BROADCAST TRANSMITTERS. DESIGNED UPON THE PRINCIPLES OF

- SIMPLICITY
- RELIABILITY
- MODULARITY
- SERVICEABILITY

THEY ARE BUILT TO LAST. PERIOD.

BROADBAND DESIGN

WITH STATE-OF-THE-ART BROADBAND AMPLIFIERS. WITH SAW FILTER SIGNAL PROCESSING, A CLEAN SIGNAL IS ENSURED.

FERRORESONANT POWER SUPPLY

RESPONSIBLE FOR PROVIDING DEPENDABLE, UNINTERRUPTED SERVICE WITH MINIMAL MAINTENANCE REQUIREMENTS AND MAXIMUM SURGE PROTECTION - TO KEEP YOU ON THE AIR.

FIELD TESTED FOR DIGITAL

THE AMPLIFIERS COME FROM THE LARCAN FIELD-TESTED GENERATION OF DTV TRANSMITTERS, WHICH MAKES THE **MX Series** THE EQUIPMENT OF CHOICE FOR THE FUTURE.

Due to continuous product improvements, specifications subject to change without notice.

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	TRANSMITTER	TRANSLATOR
OUTPUT	Power: 100 Watts, peak visual 10% Aural	100 Watts, peak visual 10% Aural
	Frequency: Channels 14 - 69 (470 - 860 MHz)	Channels 14 - 69 (470 - 806 MHz)
	Output Connector: 50 ohm, type "N"	50 ohm, type "N"
INPUT	Input Frequency: baseband, comp. NTSC video	All VHF and UHF channels
	Input Level: 0.5 to 1.5 Vp-p	1 mV, -10 to +30dB (<1dB output change for 40dB input change)
PERFORMANCE	Input Connector: 75 ohm, type "F"	75 ohm, type "F"
	Response: ± 1.5 dB between carriers	± 1.5 dB between carriers
VIDEO	Frequency Stability: ± 1 kHz over temperature range	± 1 kHz over temperature range
	Harmonic Radiation: -60dBc	-60dBc
	Spurious Products: -50dBc	-50dBc
	Three Tone IMD: -50dBc	> -50dBc
	Differential Phase: $\leq 3^\circ$	$\leq 3^\circ$
AUDIO	Differential Gain: $\leq 5\%$	$\leq 5\%$
	2T K-factor: $\leq 2\%$	$\leq 2\%$
	Group Delay: Per FCC specification	Per FCC specification
	ICPM: $\leq 3^\circ$	$\leq 3^\circ$
	AM Noise: ≥ -50 dBc	≥ -50 dBc
GENERAL	Distortion: $\leq 1\%$ (0.2% typ.) 50Hz to 15kHz	$\leq 1\%$ (0.2% typ.) 50Hz to 15kHz
	Hum and Noise: 55dB below 25kHz deviation	55dB below 25kHz deviation
	Response: ± 1.0 dB, 50Hz to 15kHz	± 1.0 dB, 50Hz to 15kHz
GENERAL	Power Requirement 800W at 95 to 130VAC, 50/60Hz	800W at 95 to 130VAC, 50/60Hz
	Dimensions: 15"-3/4 x 19" x 18" (H x W x D) (400mm x 483mm x 441mm)	15"-3/4 x 19" x 18" (400mm x 483mm x 441mm)
	Temperature Range: 0 to 45° C, recommended. Tested at -30° to + 50° C.	0 to 45° C, recommended. Tested -30° to +50° C.

