



This is a preliminary data sheet and is subject to change. 5/18/2007



Features

- ✗ FCC Type Certified
- ✗ Full Service Transmitter
- ✗ Rates at 100 W P-SYNC
- ✗ Service Friendly
- ✗ Built in BP Filter
- ✗ Full Protection From High Temperature and Load Mismatch

General Description

The LTX100U is an integrated UHF transmitter system for LPTV and Station LINK service. The transmitter is frequency agile and can be operated on any of the standard UHF TV channels with only minor changes and adjustments. The unit comes tuned to a specific channel when the order is placed with the factory. Frequency changing information is available upon request.

Specifications

Operating

Power Output.....	100 W P-SYNC
I/O MATCH.....	50 OHMS
Frequency Range.....	470-810 MHz
Frequency Stability.....	1 PPM
Harmonic and Spurious.....	<60 dB
Power Consumption.....	<600 W
AC Line Voltage.....	110 VAC

Video Performance

Visual Frequency Response.....	+/-1 dB across the TV channel -1.25 MHz to 4.75 MHz relative to visual carrier.
Differential Gain.....	<7%
Differential Phase.....	<10 Degrees
ICPM.....	<5 Degrees
Low Frequency Linearity.....	<15% Linearity
Group Delay.....	Meets FCC Part 73 Rule
Video Input Impedance.....	75 Ohms
Video Input Level.....	1 Volt p-p
Variation of Output Power.....	<5%
Regulation of Output Power.....	<5% Typical
Video Signal to Noise Ratio.....	<45% dB Un-Weighted

Audio Performance

Audio Response.....	Meets FCC Pre-Emphasis Curve
Distortion.....	<1% THD
FM Noise.....	<50 dB or Better
AM Noise.....	<40 dB or Better
AM Synchronous Noise....	<40 dB Typical

Dimensions: Inches [Millimeters]

Height.....	25	[635]
Width.....	21	[533.4]
Depth.....	24	[609.6]

General

Operating Temperature.....	40 deg C
Altitude.....	5,000 FT
RF Output Connectors.....	TYPE N

Cooling Requirements

The transmitter must be located in a place where air flow is not obstructed. A clean and dry location above the floor is desirable.

