

## Digital MMDS and BRS Series Transmitters LSI -50D and LSI -100D

The Loma Scientific International "D" Series transmitters enable wireless cable TV operators to broadcast DVB-C digital QAM channels over large geographical areas economically, by multplexing various MPEG programs in a single RF licensed channel while maintaining digital video quality. For example, at 5:1 compression it is possible to deliver 155 digital programs in an MMDS market that





programs. The "D" series transmitters are perfect for single channel EBS/BRS FCC Part 27-M systems and can easily be adapted for multichannel systems with a single transmitter.

## Standard Features include:

- High reliability design with straightforward operation and easy setup
- Class A linear power amplification providing very low ACPR
- ❖ Modular components in a space saving compact chassis
- ❖ Wideband block upconversion simplifies channel selection
- ❖ Backward compatible with combined carrier analog modulators [1]
- ❖ Capable of multichannel operation at reduced power per channel [2]
- ❖ Front panel RF (SMA) test point and forward/reverse power meter

## **Performance Specifications:**

Output Power (average digital) LSI -50D

LSI -30D LSI -100D

Output Frequency Output Impedance

Phase Noise (at 10KHz offset)

Signal to Noise Frequency Response Group Delay Spurious Products

IF Input Level [2]

IF Input Frequency (superband [3])

IF Input Impedance Temperature Range Power Requirements [4]

AC Power Consumption

Size (D x W x H)

Weight

LSI -50D 225 Watts 18.5"x19"x5.25" 17 lbs. 110/220 VAC

<u>LSI -100D</u>
450 Watts

31 lbs.

25"x19"x7.00'

12.5 Watts (50 Watts, PEP)

25 Watts (100 Watts, PEP)

2.5~2.7 GHz

-110 dBc/Hz

+/-0.25 dB

33~43 dBmV

222~408 MHz

0 to 40 degrees C

10 nSec

<-60 dB

75 Ohms

50 Ohms

55 dB

Consult LSI factory for the following options:

[1] Analog local oscillator (cost savings) phase noise -90 dBc/Hz at 10 KHz offset

[2] Multichannel model(s) and gain adjustment options, i.e. "broadband" multiple RF channels

[3] Standard fixed IF = 41~47 MHz (US) 32.15~40.15 MHz (Europe)

[4] Specify (country) at time of order. Universal AC option: 95~240 VAC, 50/60 Hz available

Specifications Subject to Change

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