LOMA SCIENTIFIC
INTERNATIONAL

SPLIT CARRIER MMDS TRANSMITTERS

- BROADCAST QUALITY PERFORMANCE
- CLASS A LINEAR, TOTALLY SOLID STATE AMPLIFIERS

  F.C.C. TYPE ACCEPTED
- ADVANCED DIAGNOSTIC MONITORING
- FRONT PANEL RF TEST POINT
- STEREO AUDIO READY
- ACCEPTS I.F. OR BASEBAND SCRAMBLING

  SYSTEMS WITH LITTLE OR NO MODIFICATIONS
- NTSC-PAL-SECAM COMPATIBLE
- UNEQUALED RELIABILITY (120,000 HOURS MTBF)
- TWO YEAR WARRANTY
- OTHER FREQUENCIES AND SERVICES INCLUDING

  ITFS AND OFS

LSI-100ST

LSI-25ST

THE LSI-25ST, LSI-50ST AND LSI-100ST *SPLIT CARRIER MMDS TRANSMITTERS UTILIZE THE VERY LATEST IN SOLID STATE AMPLIFIER DESIGN TECHNIQUES TO PRODUCE EXCEPTIONAL BROADCAST PERFORMANCE FOR YOUR SYSTEM.*

LOMA'S UNIQUE INTELLIGENT FAULT DIAGNOSTIC AND METERING CIRCUITRY ENHANCES SYSTEM RELIABILITY AND MINIMIZES MAINTENANCE REQUIREMENTS BY IMMEDIATELY ALERTING THE OPERATOR TO ANY SYSTEM MALFUNCTION. FRONT PANEL INDICATORS PROVIDE A VISUAL DISPLAY OF MODULE STATUS. ALL AMPLIFIER MODULES COVER THE FULL MMDS BANDWIDTH ALLOWING SIMPLE FIELD REPLACEMENT WITHOUT RE-TUNING.

CONTACT YOUR LOMA SCIENTIFIC INTERNATIONAL SALES REPRESENTATIVE FOR MORE INFORMATION ON OUR COMPLETE LINE OF BROADCAST TRANSMITTERS, SYSTEM ACCESSORIES AND CUSTOM RF PRODUCTS.

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40 YEARS
OF WIRELESS

Loma Scientific International

		LSI - 25ST	LSI - 50ST	LSI - 100ST
Output Power	Peak Visual	10-20 Watts†	25-50 Watts	50-100 Watts
	Average Aural	1-2 Watts	2-5 Watts	5-10 Watts
Emission	Visual	5M75C3F		
	Aural	250KF3E		
Color Transmission		NTSC (PAL and SECAM available)		
Operating Frequency		2500 - 2700 MHz (any 6, 7 or 8 MHz Channel)		
Frequency Stability		± 500 Hz Visual, ± 100 Hz Intercarrier (Higher Stability Optional)		
Output Power Variation		± 0.3 dB (7%); Manual Power Set		
		± 0.09 dB (2%); AGC		
Signal to Noise		> 60 dB		
Spurious Products		> 60 dBc		
Harmonic Suppression		> 65 dBc		
In Band Intermodulation (IM3)		> 70 dBc		
Out of Band Intermodulation		> 60 dBc		
RF Regulation		2% Maximum		
Output Impedance		50 ohm Type 'N' Jack		
Visual Performance				
Input Type		Composite Video		
Input Level		1.0 V pk-pk for 87.5% Modulation,		
		*Calibrated Detent; Front Panel Adjustment Range ± 6 dB		
Input Impedance		75 ohm or High Impedance Loop-Through		
Frequency Response		Per FCC § 21.908 [b]		
Modulation Range		To 95% Modulation Depth		
Differential Gain		2% Maximum		
Differential Phase		0.5º Maximum		
Low Frequency Linearity		5% Maximum		
Envelope Delay		Per FCC § 73.687 [a] [3]		
Frequency Response vs. Brightness		± 0.5 dB Maximum		
K Factor (2T Pulse)		2% Maximum		
ICPM		3º Maximum		
Aural Performance				
Input Type		*Balanced, 600 ohm or High Impedance Bridge		
Input Level		0 dBm ± 10 dB		
Frequency Response		*Within ± 0.5 dB of 75 Microseconds Preemphasis , 30 Hz to 15 kHz		
Harmonic Distortion		0.5% max at 25 kHz Deviation		
FM Hum and Noise		60 dB min below 25 kHz Deviation		
General and Mechanical				
Ambient Operating Temperature		-30º C to 55º C		
Relative Humidity		95% Maximum		
Power Requirements		115/220 VAC ± 15%, 50/60 Hz		
Mechanical Dimensions (H x W x D)		8.75" x 19" x 22.5"	15.75" x 19" x 22.5"	22.75" x 19" x 22.5"
Weight		45 lbs.	80 lbs.	130 lbs.
Features				
Metering		Visual, Aural, and Reflected Power, RF Amplifier Supply Voltage		
Self Test Diagnostics		Visual and Aural Amplifiers, PLO Phase Lock, VSWR Overload		
		*Video Sense Feature		
Test Point		-50 dB Output Sample - SMA Jack		
Up-Converter		AGC Lock, Visual Drive Level and AGC Controls, Aural Drive Level		
		LO and Oscillator Test Points (multiplier option only)		

† 25 Watts with external diplexer option

*Specifications with modulator model # TM2