



## P369 - Larcán Modulator

### Technical Specifications

- **Selectable Channels 750MHz**
- **Output Channels 2 through 70**
- **+60dBmV Output with Amplifiers**

### Modulator Features

The P369 LARCAN-USA Modulators are Microprocessor Controlled with Self-Diagnostic Monitoring. The Selectable Output Channels are 2-70 (55.25 MHz - 807.25 MHz UHF).

- Tunes Channels 2 through 70 by channel number.
- BAR Graph Modulation and Channel LED Readout.
- Synthesized Oscillators - Crystal Referenced Phase Locked.
- Non Volatile Channel Selection.
- Muted RF during tuning.
- +60dBmV Output Using Low-Distortion Hybrid Amplifiers
- Phase Lock Loop FM Audio
- BTSC Stereo Compatible
- Optional Aural Subcarrier and Baseband Audio Inputs
- External Separate Audio/Video & Composite IF Loop-Through
- Sound Carrier Level Adjustable -10dB to -20dB.
- SAW Filtered IF: Designed for Adjacent channel Operation
- Internal Switch Selects Standard or HRC Output
- Internal Switch Selects +/-10KHz or +/-20KHz
- RS232 Control Option (Daisy-Chain Capability)
- Video Delay Predistortion Network meets FCC 73.687
- Non-Volatile Memory Retains memory after Power Loss
- Surface Mount Technology
- Switching Power Supply 110 or 220

### Video Section System M/N

Input C3F Neg.	NTSC
Input Impedance	75Ω, unbalanced
Bandwidth	4.2MHz
Differential Gain	3% max
Differential Phase	3 Deg max
Hum and Noise	-60dB

### Audio Section

Input 50Hz - 15KHz.	0 dBm (0.8V)
Impedance	600Ω, balanced
Frequency Response	+/-1.0 dB
Freq. Tolerance +/- 500Hz	4.5MHz
Frequency Deviation	+/-25KHz
Harmonic Distortion	1%
Peemphasis (mono)	75 ms
	Internally Defeatable

### IF Section

Output Impedance	75Ω
Video IF Level	+37dBmV, +97dBμV
Audio IF Level	+22dBmV,
Adjustable	+82dBmV
Return Loss	>14dB
IF Frequency: Video Carrier	45.75MHz
IF Frequency: Aural Carrier	41.25MHz
Video-Aural Spacing	+4.5MHz
Vestigial Sideband Width	0.75MHz
Second IF Frequency	945.75MHz

### RF Section

Output Frequency	55.25 - 807.25 MHz
Frequency Tolerance	+/- 3KHz
Output Level	+60dBmV max
Adjustable	+120dBmV
Output Impedance	75Ω unbalanced
Spurious Output	<-60dBc
Return Loss	>14dB
Frequency Response	<2dB

### Mechanical and Power

Rack mount	Standard 19" Rack
Standard Dimensions	19"W x 1.75"H x 14"D
Metric Dimensions	48.22cm x 4.44cm
	x35.56cm
Weight	12 pounds (5.4kg)
Power	110/220 VAC 50-60HZ
	6W
Operating Temperature	40°F to 110°F

Available from: Bloomfield & Associates, 1980 25h St., Florence, Oregon  
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