



BTSC/SAP

Frequency Agile CATV Modulator **TVM Series**

- Covers today's spectrum needs from 54-860MHz
- A & B Channel video and audio inputs switched automatically on video sync loss or user/remote selection
- Multiple IF loops are standard to support all scramblers
- Contact closure for EAS IF switching
- External 12MHz reference input/loop to lock carrier to educe ingress beats
- Remote monitoring and configuration by networked ethernet SNMP or RS232
- Integrated DSP-based BTSC stereo encoder and SAP included (TVM860S)

Specifications

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Frequency Range	47 to 860 MHz, 6MHz steps		
Output Level	≤ 50 to ≥ 61 dBmV		
Output Impedance	75 ½		
Output Return Loss	≥ 14 dB		
C/N Inband (47-860MHz)	≥ 68 dBc		
C/N Nearband (Video + 25 MHz)	≥ 71.5 dBc		
Aggregate Noise Level (137Ch)	≥ 60 dBc		
Spurious Output, 47-860 MHz	≤ -60 dBc, -70 dBc typ.		
Flatness within a Channel	≤ ± 1.0 dBp-p		
RF Frequency Accuracy	≤ ± 2.5 kHz		
Reference Input	8.000 MHz, ≥ -10 dBm		

VIDEO

	
Video Input Level Range (for 87.5% Mod)	0.5 to 1.5 Vp-p
Video Input Impedance	75 ½
Freq. Response (sinx/x)	± 1.0 dB
S/N (Lum Weighted)	≥ 63 dB
Short Time Distortion	≤ 4.0%
Differential Gain	≤ 3.0%
Differential Phase	≤ 2.0 deg
CPM	≤ 3.0 deg

AUDIO

Frequency Response	± 0.5 dB
InputImpedance all Channels	600 or 10k1/2
Freq. Response (50Hz~15kHz)	± 0.5 dB
Freq. Response Wide BW (50Hz~90kHz)	± 0.5 dB
Signal to Noise Ratio	≥ 60 dB
Channel Separation (TVM860S)	≥ 34 dB
Harmonic Distortion	0.5%
External 4.5MHz Input Level Range	30 to 60 dBmV
Composite 4.5MHz Input Level	20 to 46 dBmV

GENERAL

115 VAC, 90 to 130 VAC
-48VDC, -40 to-65 VDC
19" (W) x 13" (D) x 1.75" (H)

Ordering Information

TVM860S	Frequency	Agile CATV	Modulator,	Stereo/SAP
TVM860	Frequency	Agile CATV	Modulator,	Mono

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