

SVM SERIES

Frequency Agile CATV Modulator



Features

- Re-broadcast quality performance specifications match those of fixed channel modulators
- Integrated BTSC Stereo & SAP (optional)
- 60 dBmV output for optimum carrier-to-noise performance Precision SAW filter for superior adjacent channel performance enables drop-in channel expansion
- State-of-the-art digital phase-locked loop (PLL) design guarantees precise drift-free operation
- Superior design including automatic band-splitting filters for excellent carrier-to-noise ratio >65 dB

- Bright LED bar graph provides simple modulation set-up separate video, audio left right
- Microprocessor tuning control provides digital display with push-button channel selection for ease of installation, configuration and servicing
- Rear panel interfaces accept baseband video and three audio formats to provide maximum installation flexibility
- Composite and separate audio and video IF loops allow compatibility with encoders, ghost cancellers and video override applications
- Both EIA STD and HRC frequency vplans included

Specifications

RF OUTPUT	
Frequency Range	54-860 MHz
Channels	CATV 2-135
Level	60 dBmV min
Level Adjustment	20 dB
Impedance	75 Ω F-Female
Frequency Stability	±3 kHz
Audio/Video Ratio	-10 to -20 dB Adjustable
Output Return Loss	-18 dB
In Band Spurious	-62 dB
Out of Band Spurious	-65 dB
VSB Response	-60 dB min
C/N (In-Band)	>62 dBc
C/N (Out-of-Band)	>65 dBc

IF OUTPUT	
Video Level	38 dBmV
Audio Level	22 dBmV
Composite Level	35 dBmV
Video Stability	±3 kHz
Audio Stability	±2 kHz
Impedance	75Ω
4.5 MHZ INPUT	
Level	37 dBmV
Impedance	75Ω
VIDEO INPUT	
Level	.7-1.0 V p-p
Frequency Response	±1.5 dB max
Impedance	75Ω
Differential Gain	<3% typ

RF OUTPUT	
Differential Phase	<1° typ
Chrom/Lumin Delay	±8 ns
Hum and Noise	-60 dB
Connector BNC	75Ω
AUDIO INPUT	
Level - Left/Mono Audio	0.5 V p-p – 1 V p-p
Level - Right Audio	0.5 V p-p – 1 V p-p
Level - SAP	0.5 V p-p – 1 V p-p
Impedance	600Ω Terminal strip
Pre-Emphasis	75 µs Switchable (mono)

BTSC STEREO	
Frequency Response	1 dB, 50 Hz -12 kHz
Total Harmonic Distortion	<2%
S/N	60dB
SAP (SECONDARY AUDIO PROGRAM)	
Frequency Response	1 dB, 50 Hz -8 kHz
Total Harmonic Distortion	<2.5%
GENERAL	
Power Input	90-260 VAC, 28 W
Operating Temperature	-10°C to 50°C
Dimensions	19* (L) x 12*+ (D) x 1.75* (H)
Weight	7.8 lbs. – 8.2 lbs.

Ordering Information

Part Number	Description
SVM550	Frequency Agile CATV Modulator, 550MHz
SVM860	Agile Modulator, 860MHz
SVM860S	Agile Stereo Modulator, 860MHz
SVM860SAP	Agile Stereo SAP Modulator, 860MHz

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