

## CT-SFMM-\*

### Fixed Channel Micro Modulator

The CT-SFMM is a professional quality, channelized, heterodyne audio/video SAW filtered micro modulator. The unit provides a mono audio and video modulated RF carrier output on any single CATV channel from 2-13 & 14-59 (A-WW). The CT-SFMM is ideal for placing audio and video onto any unused CATV channel. Different standard audio/video sources, such as satellite receivers, television cameras, video tape recorders, or television demodulators can be used.

The CT-SFMM takes baseband audio and video and modulates these signals onto the desired output channel. The heterodyne conversion process used in the CT-SFMM employs a crystal referenced, PLL synthesized local oscillator that guarantees a rock solid, no drift output for the life of the modulator. The CT-SFMM also meets FCC Docket 21006 aeronautical frequency offset requirements. The modulator accepts standard composite video in the range of 0.7 to 2.5 V p-p.

### Key Features

- Fixed channel SAW filtered micro modulator
- Available from channels 2-13 & 14-59 (A-WW) CATV
- Die-cast chassis offers superior protection against ingress or egress
- Recessed front panel access to all level controls and indicators
- Use with Cabletronix CTPS-12 power supply and CTCR-12 rack chassis or with 3rd party power supplies and/or chassis depending upon configuration
- 1 year warranty
- 3 year extended warranty available



**Call for pricing on this product with international video standards.**

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Output	
Output Channels	2-13 & 14-59 (A-WW)
Output Impedance	75Ω (Ohms)
Pix Frequency Accuracy	± 5KHz
Pix Level	47 dBmV
Pix Level Control	14 dB
Sound Carrier Frequency	4.500 MHz
Sound Carrier Accuracy	±2 KHz
Pix Frequency Stability	±5 KHz Max.
Audio Frequency Stability	±10 KHz Max.
Pix/Sound Ratio	-16 dB
P/S Ratio Control	-11dB - -22dB
Spurious Response	-60dB Min,
Output Return Loss	-10 dB

Video Input and Modulation	
Video Response	±1.7 dB Max.
Video Input	1.0 Vpp
Video Input Impedance	75Ω (Ohms)
Video Modulation Control	0-90%

Audio Input and Modulation	
Audio Response	±1.5 dB Max.
Audio Input	0.5 Vpp
Audio Input Impedance	10Ω (Ohms) Unbalance
Audio Modulation Control	0 - ±35 KHz
Audio Pre-emphasis	On/Off Switch Selected

VSB Response	
Frequency	
Fv-1.25 MHz	-25 dBc.
Fv-1.5 MHz	-60 dBc.
Fv-2.42 MHz	-60 dBc
Fv-3.58 MHz	-60 dBc.
Fv-6.0 MHz	-60 dBc
Intermodulation Distortion (3 tone 920 Beat)	-55 dBc
Phase Noise	-50 dBc
Visual Carrier Noise Ration	60 dBc
Differential Gain	<±5%
Differential Phase	<±5 Deg

Connectors - Rear Panel	
Video Input	"F" Type, Female
Audio Input	RCA, Female
RF Output	"F" Type, Female
Power	Header, 3 Pin

Controls - Front Panel	
Audio	Control
Video	Control
AV	Control
RF	Control
Channel	Listed
Power	LED, Red

General	
Power Requirements Voltage	+12/+5 VDC
Current (Max)	170/35 mA
Power (Max)	2.25W
Temperature Range	32 to 122 °F (0 to 50 °C)
Dimensions (WxHxD):	1.15" x 3.5" x 10.25" (29 x 89 x 260mm)
Weight	0.65 lbs (0.30 kg)

The CT-SFMM fixed channel modulators are regulatory compliant. All product specifications are accurate at time of printing, but are subject to change.

Products are warranted for one year. Warranty can be extended to three years.

Contact a sales engineer for details.