Modulator Description
The CT-FSAM550 is a frequency agile commercial audio and video RF modulator with SAW filtering and a microprocessor controlled output. It has a 550 MHz output capability covering channels 2-78 & 95-99 in the CATV band. Its video dynamic range insures 87.5% modulation depth over a wide video input range. The vestigial sideband selectivity allows maintenance free adjacent channel configuration. An efficient power supply enables cool and stable operation. The unit offers high performance, low cost and compact design. The unit is backed by a two year limited warranty.

The CT-FSAM550 is a professional quality frequency agile 19” rack mounted modulator providing an audio and video modulated RF carrier for any single channel in the CATV 550 MHz range. Any standard audio/video source can be used, including satellite receivers, demodulators, VCRs, laser/DVD players, and TV/security cameras.

Features and Benefits
- +60 dBmV RF output level
- Microprocessor control
- 550 MHz Output capability (CATV 2-78 & 95-99)
- SAW Filtering for maintenance free adjacent channel configuration
- Spurious output -60 dBc
- Double I.F. loop; separate audio & video
- BTSC Composite (MPX) stereo capability
- BTSC 4.5 MHz stereo capability
- Supports HRC & IRC frequency offsets
- Auxiliary AC outlet
- Cool operation
- Excellent value for your investment dollar
- 2 Year limited warranty. Warranty can be extended to 3 years

Application
Designed for commercial grade headend systems, the CT-FSAM550 provides system operators the engineering ease and flexibility associated with new headend deployments, existing headend upgrades, and system maintenance.

Call For Pricing On This Product With International Video Standards.

Email: sales@cabletronix.com  Web: www.cabletronix.com
CT-FSAM550
Agile Commercial Modulator

Specifications

RF
- Output Frequency: CATV Channels 2 to 78 & 95-99 (54-550 MHz)
- Output Level: +60 dBmV minimum
- Spurious Output: -60 dB below video carrier with A/V ratio @-15 dB
- C/N Ratio: >60 dB in band, >65 dB out of band
- Hum and Noise: -60 dB min. @ 87.5% modulation
- Frequency Accuracy: ±5 kHz in aeronautical band
- Output Impedance: 75 Ohms
- Output Return Loss: 15 dB
- A/V Ratio: Adjustable –7 to –22 dB
- Fv+6 MHz (upper adj-reject): >60 dBC
- Fv-1.5 MHz (lower adj-reject): >60 dBC
- I.F. Frequency Video: 45.75 MHz
- I.F. Frequency Audio: 41.25 MHz

Video
- Input Level: 0.5V to 1.5V p-p for 87.5 % Modulation
- Input Type: Clamped video neg. sync
- Video Signal-to-Noise Ratio: <5.0 % (10 to 90% APL)
- Differential Gain: <5% (10 to 90% APL)
- Differential Phase: 5° (10 to 90% APL)
- Group Delay Response: meets FCC group delay pre-distortion requirements for color transmission

Audio
- Input Level: 0.5 V p-p for 25 KHz Peak Deviation
- Input Impedance: 600 ohms unbalanced
- Flatness Left Audio: 1.5 dB max. 50Hz to 15KHz
- Flatness Right Audio: 1.5 dB max. 50Hz to 15KHz
- Pre-Emphasis: 75 microseconds

General
- Power Requirement: 120 VAC, 60 Hz
- Dimensions: 19" W x 9 3/8" D x 1.75" H
- Weight: 8 Lbs.
- Operating Temperature Range: -10°C to 50°C
- Connectors RF, Video & I.F.: “F” Type
- Connectors Audio: RCA

The CT-FSAM550 audio / video modulators are regulatory compliant. All product specifications are accurate at time of printing, but are subject to change.

The CT-FSAM550 carries a 2 year limited warranty. The Warranty can be extended to three years. Contact a sales engineer for details.

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