



PFAM550SUB

550MHz Sub-Band Extended Agile A/V Modulator



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The **PFAM550SUB** is a professional re-broadcast grade frequency agile double heterodyne conversion audio/video modulator that allows RF return of audiovideo signal from a remote location on bi-directional cable systems. It is ideal for use in institutional applications requiring remote TV origination. The PFAM550SUB features a composite audio-video IF loop, which provides compatibility with encoders, ghost cancellers, and video-override applications. Its SAW filter provides superior sideband filtering, adjacent channel compatibility, and spurious free output. The PFAM550SUB provides 56±1dBmV output from sub-band channels T7 through T13, CATV channels 2 to 78 including channels 95 to 99 while accommodating HRC and IRC offset frequencies (5.75-550MHz). Front panel DIP-switch controlled phase-locked-loop (PLL) allows easy channel selection and drift-free channel stability. High quality modulation and RF level control potentiometers assure years of reliable operation. The modulator is shipped with all internal adjustments pre-set. FCC Docket 21006 offsets are standard. Pico Macom backs up this product with its industry leading 5-year limited warranty.

89-Channel Range 5.75-550 MHz (CATV T7-T13, 2-78, 95-99)

- Sub-band operation enables remote TV origination making it ideal for institutional cable systems
- > DIP switch controlled digital phase-locked loop for solid driftfree output on any channel
- > SAW filtered for superior adjacent channel performance enables drop-in channel expansion
- > 57dBmV output for optimum carrier-to-noise performance
- Carrier-to-noise ratio >60dB provides superior picture quality
- Front panel test point for easy RF level system monitoring
- Composite audio-video IF loop provides compatibility with encoders, ghost cancellers, and video-override applications
- ► IRC and HRC offset available allows for easy frequency settings in systems using offset channels
- **Double heterodyne conversion** provides superior spurious harmonic output suppression

Order From:



Toll Free: 800-423-2594 www.multicominc.com multicom@multicominc.com

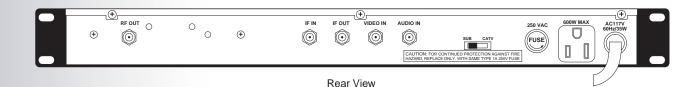


PEAM550

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Front View



RF

Video Channels: 89 channels

(T7-T13, 2-78 & 95-99) Frequency Range: 5.75 MHz - 550 MHz Output Level: 45 to 57 dBmV, ± 2 dBmV (adjustable from front panel)

Output Impedance: 75 Ohms **Output Return Loss:** -15 dB

Audio/Video Ratio: Adjustable -7 to -22 dB below visual carrier

Frequency Stability: ±5 kHz in aeronautical band Conforms to FCC Docket

2100

Spurious Output: -60 dB below video carrier with A/V ratio @ -15 dB

C/N (In-Band): >57 dB >68 dB

C/N (Out-of-Band): Fv+6 MHz (Upper Adj. Reject): >60 dBc Fv-1.5 MHz (Lower Adj. Reject): >60 dBc

Video

Input Level: 1.0 V p-p min for 87.5% mod. Input Type: Clamped video neg. sync Video S/N: -60 dB minimum (weighted) Input Level Range: 0.5 V to 1.5 V p-p Frequency Response:

±0.8 dB 30 Hz to 4.2 MHz Differential Gain: <5% (10 to 90% APL) **Differential Phase:** <5° (10 to 90% APL) Chrominance luminance delay: (*see note below)

Hum and Noise: -60 dB @ 87.5% modulation

*NOTE: Meet FCC group delay predistortion correction requirements for color transmission.

Audio

600 Ohms unbalanced Base-band Input Impedance: Base-band Input Level: Pre-emphasis:

Flatness: 1.5 dB max., 50 Hz to 15 kHz

0.5 V p-p for 25 kHz peak dev 75 microseconds

Ordering Information

PFAM550SUB

General

Power Input:

Operating Temperature: Dimensions: Weight: Connectors:

95 to 130 VAC, 60 Hz or 210-250 VAC, 50 Hz -10° C to +50° C 19"(L) x 12"(D) x 13/4"(H) 4.2 lbs. All "F" type

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