



PFAM550

550MHz Agile A/V Modulator



- ▶ 82-Channel frequency range 54-550 MHz (CATV 2-78, 95-99)
- ▶ DIP switch controlled phase-locked loop for solid drift-free 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 for frequency settings in systems using offset channels
- ▶ Double heterodyne conversion provides superior spurious harmonic output suppression
- ▶ UL Approved

PFAM550

550MHz Agile A/V Modulator

The **PFAM550** is a professional re-broadcast grade frequency agile double heterodyne conversion audio/video modulator. Its SAW filter provides superior sideband filtering, adjacent channel compatibility and spurious free output. The **PFAM550** provides 57 ± 2 dBmV output over 82 channels from CATV channel 2 to 78 accommodating HRC and IRC offset frequencies. The unit features a composite audio-video IF loop, which provides compatibility with encoders, ghost cancellers, and video-override applications. 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, and FCC Docket 21006 offsets are standard. **Pico Macom** backs up this product with its industry leading 5-year limited warranty.

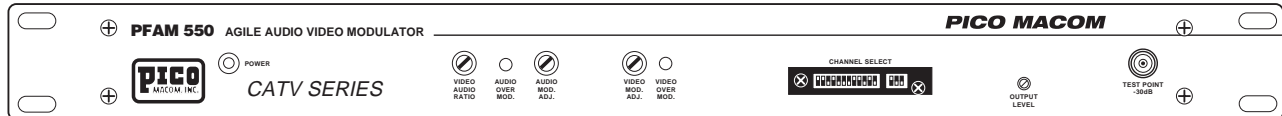
Order From:



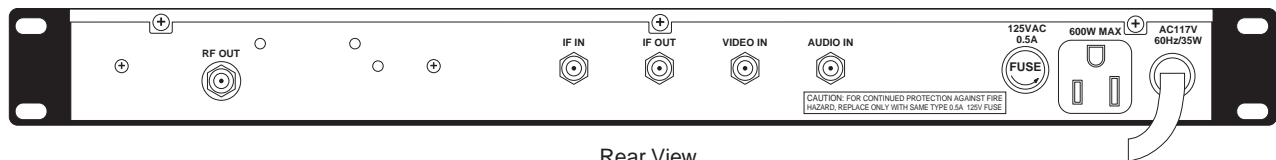
Toll Free: 800-423-2594
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PFAM550

550MHz Agile A/V Modulator



Front View



Rear View

RF

Video Channels:	82 channels (2-78 & 95-99)
Frequency Range:	54-550 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 21006
Spurious Output:	-60 dB below video carrier with A/V ratio @ -15 dB
C/N (In-band):	>57 dB
C/N (Out-of-Band):	>68 dB
Fv+6 MHz (Upper Adj. Reject):	>60 dBc
Fv-1.5 MHz (Lower Adj. Reject):	>60 dBc

Audio

Baseband Input Impedance:	600 ohms unbalanced
Baseband Input Level:	0.5 V p-p for 25 kHz peak dev.
Pre-emphasis:	75 microseconds
Flatness:	1.5 dB max. 50 Hz to 15 kHz

Ordering Information

PFAM550

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: Meets FCC group delay predistortion requirements for color transmission.

General

Power Input:	95 to 130 VAC, 60 Hz or 210-250 VAC, 50 Hz
Operating Temperature:	-10° C to + 50° C
Dimensions:	19"(L) x 9 3/8"(D) x 1 3/4"(H)
Weight:	3.8 lbs.
Connectors:	All "F" type

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