



MPCMA

Universal-Chassis Agile A/V Mini-Modulator

- 135-Channel Range 54-860 MHz (CATV 2-135)
- >45dBmV min adjustable output for optimum carrier-to-noise performance
- Compatible with most manufacturers mini-modulator chassis
- State-of-the-art digital phase-locked-loop (PLL) design guarantees precise frequency locking for solid drift-free operation
- Microprocessor control enables quick digital push-button channel selection for ease of installation, configuration, and improved system uptime
- SAW (surface acoustic wave) filtered for superior adjacent channel performance enables drop-in channel expansion
- BTSC stereo compatible pre-emphasis disable switch provides pass-through for stereo signals
- In-band carrier-to-noise ratio >65dB ensures superior picture quality
- Automatic selection of aeronautical offsets (12.5kHz, 25kHz) for trouble-free configuration
- Front panel access to controls enables easy setup
- IRC and HRC offset available for frequency settings in systems using offset channels



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The MPCMA is a professional grade microprocessor-controlled agile audio/video mini-modulator. This modulator accepts any audio-video baseband television signal and provides a 45dBmV minimum output on CATV channels 2 to 135 (54-860 MHz) while accommodating HRC and IRC offset frequencies. Channel selection is easily accomplished via channel up/down buttons located on the front panel while built-in RF muting circuitry prevents interference during online channel reassignment. This MPCMA features >90dB out-of-band carrier-to-noise ratio, allowing virtually unlimited numbers of MPCMA's to be combined in a system without the need for external bandpass filtering. Up to 12 or 16 units can be installed "mix-and-match" in Pico Macom's MPC12, MPS12, MPC12R or MPC16 chassis with MPMS45 and MPCM45 mini-modulators or MPCD mini-demodulators. Its unique design enables it to be installed in other manufacturers' mini-mod chassis. The unit's tracking filter technology and double-heterodyne conversion ensure accurate and spurious-free output. The MPCMA uses SAW filtering in conjunction with FCC group delay correction circuitry to provide superior adjacent channel selectivity. The unit's PLL circuitry in conjunction with the non-volatile memory contained in the microprocessor ensures easy and reliable channel selection and restoration. The MPCMA modulator is shipped with all internal adjustments preset. Pico Macom backs up this product with its industry leading 5-year limited warranty.

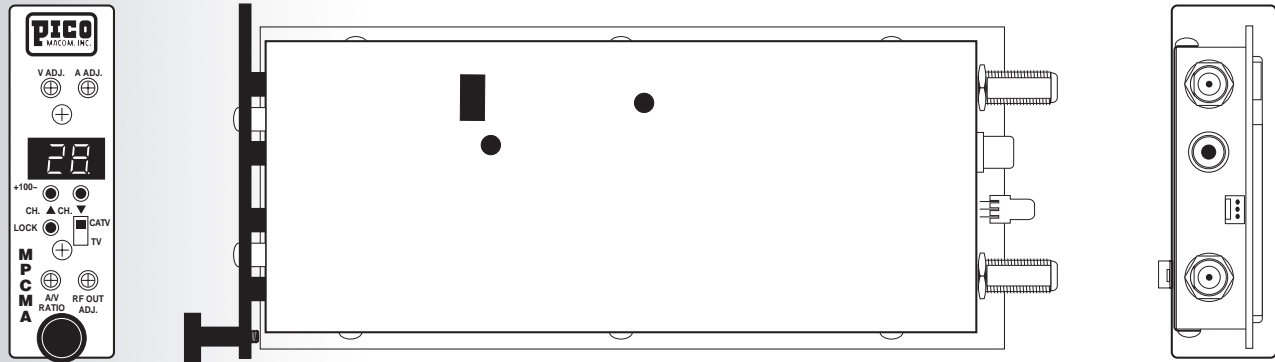
Order From:



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RF

Channels:	135 Channels
Frequency Range:	54-860 MHz (CATV Ch. 2-135)
Output Impedance:	75 Ohms
RF Output Level:	45 dBmV, adjustable from front panel (min.)
Output Return Loss:	-15 dB
Audio/Video Ratio:	Adjustable -7 to -22 dB below video 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):	>65 dB
C/N (Out-Of-Band):	>90 dB
Fv+6 MHz (Upper Adj. Rejection):	>-60 dBc
Fv-1.5 MHz (Lower Adj. Rejection):	>-60 dBc
I.F. Frequency:	Video 45.75 MHz
Audio	41.25 MHz

Audio

Hum And Noise:	-60 dB @ 87.5% modulation
Audio Baseband Input Impedance:	600 Ohms
Audio Baseband Input Level:	0.5 V p-p for 25 kHz peak deviation
Preemphasis:	75 microsecond
Flatness Audio:	1.5 dB (50 Hz to 15 kHz)

Video

Video Input Level:	1 V p-p minimum for 87.5% modulation
Video Input Type:	Clamped video negative sync
Video 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:	<50 nsec, standard or FCC predistortion option

General

Dimensions:	1"(W) x 8"(D) x 3.45"(H)
Weight:	0.8 lbs.
Power Input:	5 VDC, 12 VDC @ .25A
Operating Temperature:	-10° C to 50° C
Connectors:	Video In/RF Out "F" type
Audio In	RCA

Ordering Information

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