



MPCD

Universal-Chassis Agile A/V Mini-Demodulator

- ▶ **125-Channel Range 54-806 MHz (CATV 2-125)**
- ▶ **Single-slot design allows up to 12 or 16 units in Pico Macom's MPC12, MPS12, MPC12R and MPC16 chassis**
- ▶ **Fully compatible with most other manufacturers "mini-mod" chassis**
- ▶ **Keyed AGC system provides excellent picture stability**
- ▶ **>60dB signal-to-noise ratio for crisp, sharp picture**
- ▶ **Separate video and audio outputs provide maximum flexibility**
- ▶ **Easy setup and configuration using front panel audio and video deviation controls**
- ▶ **Microprocessor control with push-button channel selection provides ease of installation, configuration, and servicing**
- ▶ **Digital display provides quick channel identification**
- ▶ **State-of-the-art digital phase-locked loop (PLL) design guarantees precise frequency locking for solid drift-free operation**
- ▶ **SAW filtered for precise adjacent channel rejection**
- ▶ **Envelope detection ensures exceptional differential gain and phase**



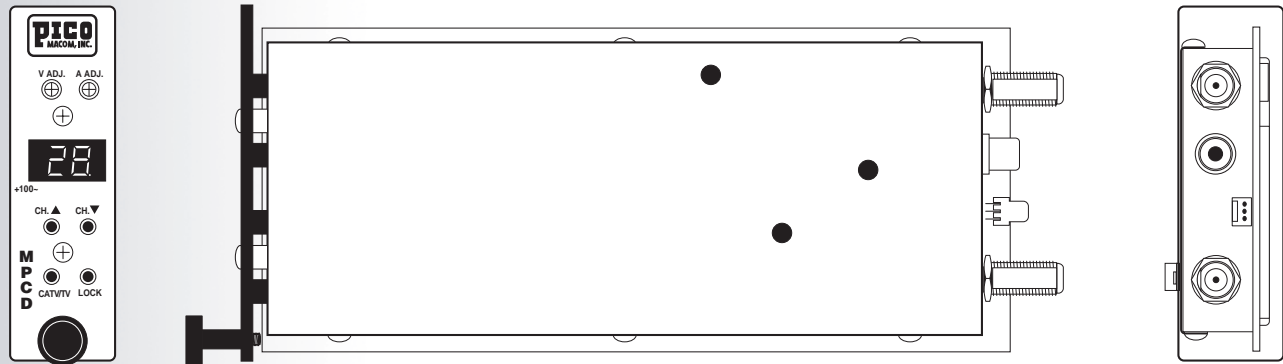
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The **Pico Macom MPCD** is a frequency agile professional grade, microprocessor controlled CATV mini demodulator. The unit accepts any NTSC television signal in the 54-806MHz frequency-range converting it to baseband video and audio, while maintaining over 60dB S/N ratio. Up to 12 or 16 units can be installed "mix-and-match" in Pico's **MPC12, MPS12, MPC12R and MPC16** chassis with **MPCM45** and **MPCMA** mini-modulators. Its unique design enables it to be installed in other manufacturers' mini-mod chassis. The unit's phase-locked-loop frequency control, envelope signal detection, and superior SAW filtering minimize adjacent channel interference and assure accurate and spurious free performance. IRC or HRC offsets can be activated via push-button switches on the front panel. 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 **MPCD** demodulator is shipped with all internal adjustments preset. **Pico Macom** backs up this product with its industry leading 5-year limited warranty.

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RF

Channels:	125 Channel (CATV 2-125)
Input Frequencies:	54 – 806 MHz
Input Impedance:	75 Ohms
Noise Figure:	5 dB-VHF Band, 7 dB-UHF Band
Input Return Loss:	14 dB-VHF Band, 8 dB-UHF Band

Audio

Audio Output Impedance:	600 Ohms
Audio Output Level:	800 mV minimum
Deemphasis:	75 microseconds
Flatness:	1.5 dB max. 50 Hz to 15 kHz

Ordering Information

MPCD

Video

Video Output Impedance:	75 Ohms
Video Output Level:	1.0 V p-p
Video S/N:	-60 dB minimum (weighted)
Differential Gain:	<5% (10 to 90% APL)
Differential Phase:	<5° (10 to 90% APL)
Chrominance Luminance delay:	See note

Note: Meets FCC group delay predistortion correction for color transmission.

General

Power Input:	+12 Vdc, +5 Vdc
Operating Temperature:	-10° C to +50° C
Dimensions:	2.07"(W) x 8"(D) x 3.45"(H)
Weight:	0.7 lbs.
Connectors:	Video Out - F type, Audio Out - RCA, Power-center 3-pin receptacle