



PFAD900CS

806MHz Agile CATV A/V Demodulator



- 125-Channel Range 54-806MHz (CATV 2-125, TV 2-69)
- Re-broadcast-quality specifications for unparalleled picture quality
- Keyed AGC system provides excellent picture stability
- >60 dB signal-to-noise ratio for crisp, sharp picture
- Quadrature single-tuned audio detection guarantees superior audio quality
- Separate video and audio outputs provide maximum flexibility
- Separate 4.5 MHz sub-carrier and MPX outputs for BTSC stereo applications
- 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
- 45.75 MHz composite IF output allows tuner monitoring, encoder, ghost canceling, and video override applications

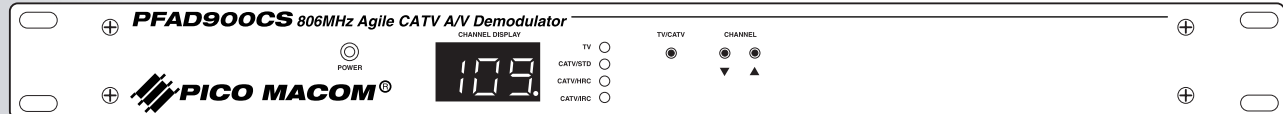
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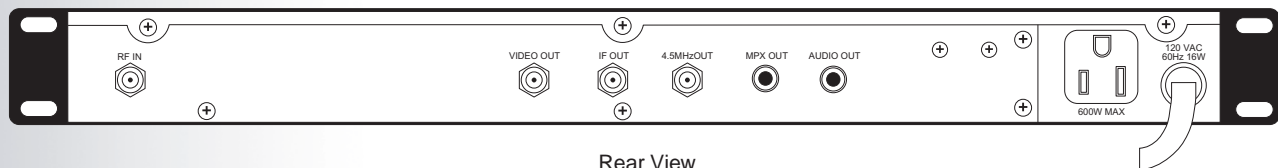
The Pico Macom PFAD900CS is a frequency agile professional re-broadcast grade, microprocessor controlled CATV demodulator. Its phase-locked-loop frequency control, envelope signal detection, and superior SAW filtering minimize adjacent channel interference and assure accurate and spurious free performance. 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. 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 PFAD900CS provides three additional outputs: (1) an IF output to monitor tuner status and use in encoder, ghost cancelling, and video override applications; (2) a 4.5MHz sub-carrier output; and (3) a broadband multiplex (MPX) output for high quality BTSC stereo. The PFAD900CS 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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Front View



Rear View

RF

Channels:	125 Channels (CATV 2 – 125, TV 2-69) HRC/IRC offsets
Input Level:	
Single channel	+40 dBmV max.
60 channels	+20 dBmV max.
Image Rejection:	
(@ -47 dBmV input)	VHF = 70 dB, UHF = 60 dB
(@ -17 dBmV input)	VHF = 60 dB, UHF = 50 dB
Noise Figure:	VHF = 8 dB, UHF = 8 dB

Video

Output Level:	0.5 to 1 V p-p
Impedance:	75 Ohms
Bandwidth:	DC to 4.2 MHz
Frequency Response:	± 1.5 dB
Differential Gain:	<5% (10 to 90% APL)
Differential Phase:	<5° (10 to 90% APL)
Detector Type:	Envelope
Signal to Noise Ratio:	>60dB minimum

Audio

Output Level:	800 mV min. deemphasized
Output Impedance:	600 Ohms
Frequency Response:	20 Hz to 15 kHz
Detection Type:	Quadrature FM
4.5 MHz Sub-Carrier Output Level:	35 dBmV
MPX output level:	800 mV unbalanced @ 600 Ohms

General

Power Input:	117 VAC 60 Hz
Operating Temperature:	-10° C to +50° C
Dimensions:	19"(L) x 3"(D) x 1 ³ / ₄ "(H)
Weight:	3.8 lbs.

Ordering Information

PFAD-900CS