



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

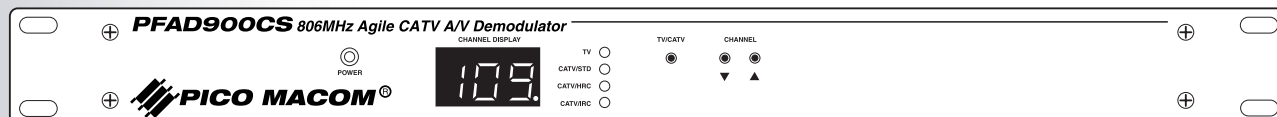
PFAD900CS

806MHz Agile CATV A/V Demodulator

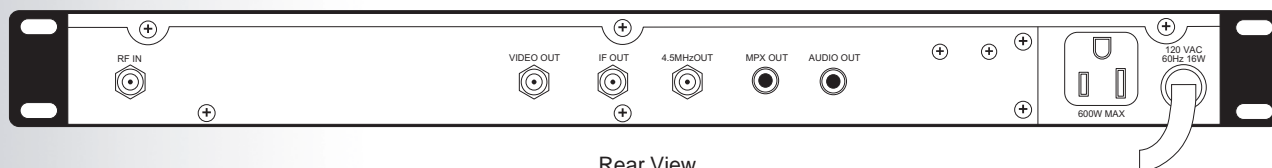
The **Pico Macom PFAD900CS** is a frequency agile professional re-broadcast grade, microprocessor controlled CATV demodulator. Its phase-locked-loop frequency control, envelope signal detection, and superior SAW filtering minimize adjacent channel interference and assure accurate and spurious free performance. 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.

PFAD900CS

806MHz Agile CATV A/V Demodulator



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