PICO MACOM ®

PFAD900CSS

806MHz Sub-Band Extended Agile CATV A/V Demodulator

PICO MACOM
5 YEAR
WARRANTY
INDUSTRY LEADING • LIMITED

- ➤ **132-Channel Range 5.75-806 MHz (CATV T7-T13 and 2-125)**

- ➤ **Back-panel switch enables sub-band operation for receiving remote TV origination making it even more flexible for institutional cable systems**

- ➤ **Broadcast quality specifications for unparalleled picture quality**

- ➤ **Keyed AGC system provides excellent picture stability**

- ➤ **>60dB 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 cancelling, and video override applications**

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The **Pico Macom PFAD900CSS** 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 5.75-806MHz frequency range converting it to baseband video and audio, while maintaining over 60dB S/N ratio. The sub-band capabilities allow the reception of remote channel origination for redistribution over the entire cable system making it the ideal signal processor in government and institutional environments. A rear-panel switch enables sub-band channel operation. 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 **PFAD900CSS** 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 **PFAD900CSS** demodulator is shipped with all internal adjustments preset. **Pico Macom** backs up this product with its industry leading 5-year limited warranty.
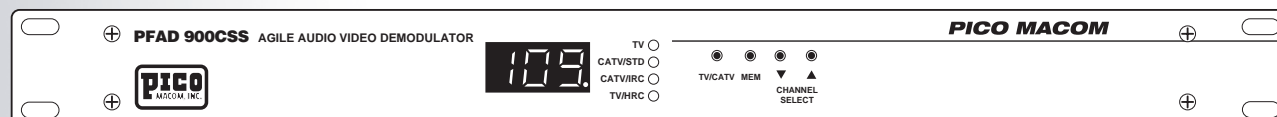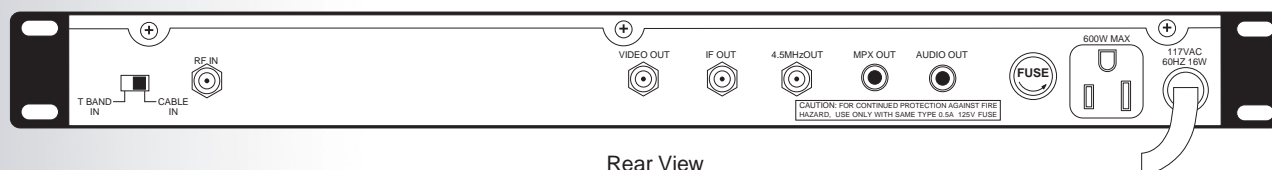
PFAD900CSS

806MHz Sub-Band Extended Agile CATV A/V Demodulator

PFAD 900CSS AGILE AUDIO VIDEO DEMODULATOR

PICO MACOM. INC.

109.

TV
CATV/STD
CATV/IRC
TV/HRC

TV/CATV   MEM   ▼   ▲
CHANNEL
SELECT

PICO MACOM

Front View

T BAND IN — CABLE IN

RF IN

VIDEO OUT   IF OUT   4.5MHzOUT   MPX OUT   AUDIO OUT

FUSE

600W MAX

117VAC
60HZ 16W

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE
HAZARD, USE ONLY WITH SAME TYPE 0.5A 125V FUSE

Rear View

RF

Channels:	132 Channels
	(CATV T7-T13, 2-125)
	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

Video 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

Audio

Output Level:	1 volt unbalanced deemphasized
Output Impedance:	600 Ohms
Frequency Response:	Quadrature
4.5 MHz Sub-Carrier Output Level:	35 dBmV
MPX output level:	800 mV unbalanced @ 600 ohms

General

Power Input:		117 VAC 60 Hz
		240 VAC 50 Hz
Operating Temperature:		-10° C to +50° C
Dimensions:		19˝(L) x 12˝(D) x 1³/4˝(H)
Weight:		6.9 lbs.
Connectors:	**Video out**	I.F., 4.5 MHz "F" type, MPX
	Audio out	RCA type

Ordering Information

PFAD-900CSS

Order From: **MULTICOM** ®

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