



PLM860SAW

860MHz Channelized-Agile PLL SAW Filtered A/V Modulator



- ▶ **113-Channel Range**
216-860 MHz (CATV 23-135)
- ▶ **DIP switch controlled digital phase-locked loop for solid drift-free output on any channel**
- ▶ **SAW filtered for superior adjacent channel performance enables drop-in channel expansion**
- ▶ **55dBmV output for optimum carrier-to-noise performance**
- ▶ **In-band carrier-to-noise ratio >62 dB provides superior picture quality**
- ▶ **Front panel test point for easy RF level system monitoring**
- ▶ **IRC and HRC offset available for frequency settings in systems using offset channels**
- ▶ **Auxiliary AC outlet for convenience**
- ▶ **Optional PAL format channels available**

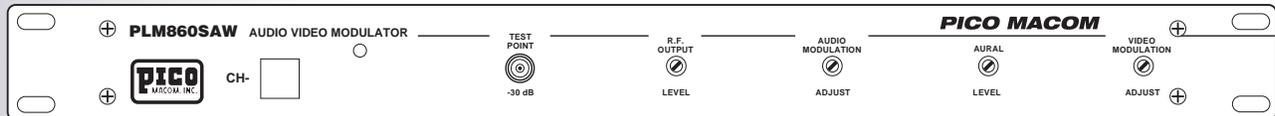
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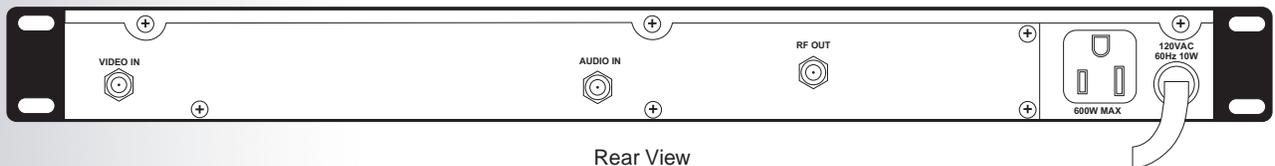
The **PLM860SAW** modulator features a digital phase-locked loop (PLL) and saw filter for superior adjacent channel performance and drift-free channel stability. This professional grade modulator maintains a full 55dBmV output on channels 23 to 135 while accommodating HRC and IRC offset frequencies (216-860 MHz). The **PLM860SAW** is a very cost effective method to expand an existing cable system beyond 300MHz. The **PLM860SAW** was designed to extend channel capacity of systems using PCM55, PLM55, or PCM55SAW modulators. Its SAW filter provides superior sideband filtering, adjacent channel compatibility, and spurious free output. High quality modulation and RF level control potentiometers assure years of reliable operation. Easy lab retuning enables inventory savings and less down time. The **PLM860SAW** is shipped with all internal adjustments preset. FCC Docket 21006 offsets are standard. **Pico Macom** backs up this product with its industry leading 5-year limited warranty.

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Front View



Rear View

RF

Channels:	113 Channels (CATV 23-135)
Frequency Range:	216 - 860 MHz
Output Impedance:	75 ohms
RF Output Level:	45 to 55 dBmV typical, adjustable from front panel
Frequency Accuracy/Stability:	±10 kHz, ±5 kHz in aeronautical band. Conforms to FCC Docket 21006
Spurious Output:	>-60 dB below video carrier with A/V ratio @-15 dB
Audio/Video Ratio:	Adjustable -7 to -18 dB
Audio Input Level:	0.5 V p-p for 25 kHz

Audio

Preemphasis:	peak deviation 75 microseconds
Flatness:	1.5 dB maximum 50 Hz to 15 kHz

Ordering Information

PLM860SAW - Specify CATV or UHF

Video

Video Input Level:	1.0 V p-p minimum for 87.5% modulation
Input Type:	Composite video negative sync
Visual:	C/N>62 dB @ 4 MHz BW
Frequency Response:	±1.5 dB 30Hz to 4.2 MHz
Differential Gain:	<5%
Differential Phase:	<5°
Hum And Noise:	-60 dB @ 87.5% modulation
Phase Noise:	-100 dBc/Hz

Meets FCC group delay predistortion correction requirement for color transmission.

General

Power Input:	108-125 VAC 60 Hz 20 W
Operation Temperature:	-10°C to 50°C
Dimensions:	19"(L) x 3"(D) x 1 ³ / ₄ "(H)
Weight:	3.9 lbs.
Connectors:	All "F" type