



# 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**

## PLM860SAW

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

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.

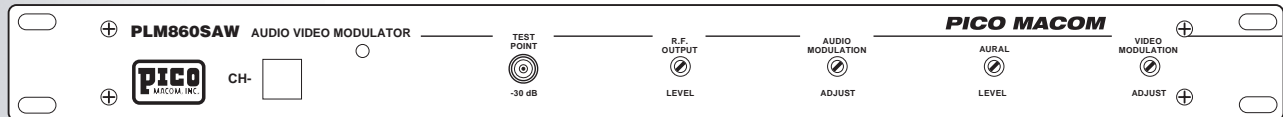
Order From:



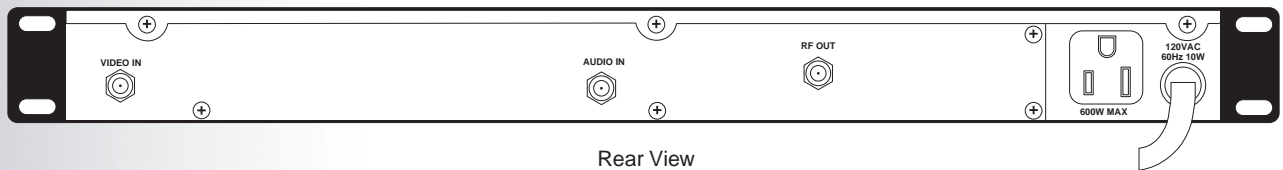
Toll Free: 800-423-2594  
[www.multicominc.com](http://www.multicominc.com)  
[multicom@multicominc.com](mailto:multicom@multicominc.com)

# PLM860SAW

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



Front View



Rear View

## RF

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

## Video

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

Meets FCC group delay predistortion correction requirement for color transmission.

## Audio

<b>Preemphasis:</b>	peak deviation 75 microseconds
<b>Flatness:</b>	1.5 dB maximum 50 Hz to 15 kHz

## General

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

## Ordering Information

PLM860SAW -  Specify CATV or UHF

Order From:



Toll Free: 800-423-2594  
www.multicominc.com  
multicom@multicominc.com