



# PLM55

300MHz Channelized-Agile PLL A/V Modulator



- 41-Channel Range 54-300 MHz (CATV 2-36, 95-99)
- DIP switch controlled digital phase-locked loop for solid drift-free output on any channel
- 55dBmV output for optimum carrier-to-noise performance
- Switch-selectable aural carrier level (12, 14, 16 or 18dB below video carrier) for easy system setup with minimum instrumentation
- Easy lab retuning of output filter for reduced inventory of spares and less down time
- In-band carrier-to-noise ratio >60 dB provides superior picture quality
- Front panel test point for easy RF level system monitoring
- IRC and HRC offset allows for frequency settings in systems using offset channels
- Auxiliary AC outlet for convenience
- UL approved

## PLM55

300MHz Channelized-Agile PLL A/V Modulator

The **PLM55** is **Pico Macom's** next generation version of its popular **PCM55** modulator. The unit is a professional grade phase-locked loop, channelized-agile television modulator giving superb performance at an economical price. This modulator is used in lieu of the **PCM55** in more heavily loaded 300MHz systems where greater frequency stability and higher adjacent channel performance is required. This modulator maintains a full 55dBmV output on channels 2 to 36 and 95 to 99 while accommodating HRC and IRC offset frequencies (54-300 MHz). Easy lab retuning enables inventory savings and less down time. The **PLM55** 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.

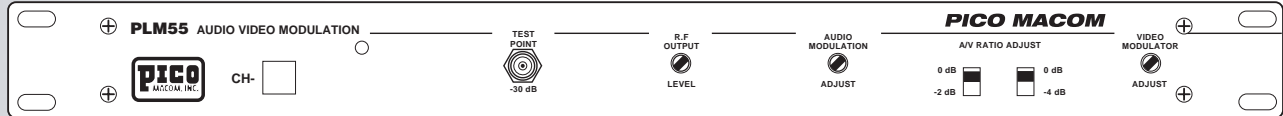
Order From:



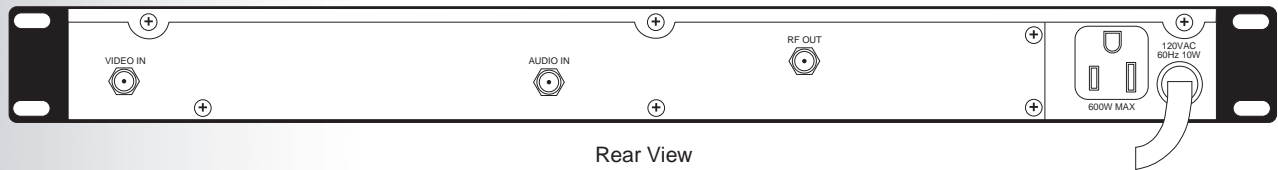
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# PLM55

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Front View



Rear View

## RF

<b>Channels:</b>	41 channels (CATV 2-36, 95-99)
<b>Frequency Range:</b>	54-300 MHz
<b>Output Level:</b>	55 dBmV min., adjustable from front panel
<b>Output Impedance:</b>	75 ohms
<b>Output Return Loss:</b>	15dB
<b>Audio/Video Ratio:</b>	Adjustable -12 to -18 dB below video carrier
<b>Frequency Stability:</b>	±5 kHz in aeronautical band. Conforms to FCC Docket 21006
<b>Spurious Output:</b>	-60dB below video carrier with A/V ratio @ -15 dB

## Audio

<b>Baseband Input Impedance:</b>	600 ohms unbalanced
<b>Baseband Input Level:</b>	0.5 V p-p for 25 kHz peak dev.
<b>Pre emphasis:</b>	75 microsecond
<b>Flatness:</b>	1.5 dB (50 Hz to 15 kHz)

## Ordering Information

PLM55 - Channel

## Video

<b>Input Level:</b>	1.0 V p-p minimum for 87.5% mod.
<b>Input Type:</b>	Clamped video neg. sync
<b>Visual C/N:</b>	60 dB @ 4 MHz BW
<b>Frequency Response:</b>	±1.5 dB (30 Hz to 4.2 MHz)
<b>Hum and Noise:</b>	-60 dB @ 87.5% modulation

Meets FCC group delay predistortion correction requirement for color transmission.

## General

<b>Power Input:</b>	108 to 125 VAC 60 Hz 10W
<b>Operating Temperature:</b>	-10°C to 50°C
<b>Dimensions:</b>	19"(L) x 3"(D) x 1 3/4"(H)
<b>Weight:</b>	4.0 lbs.
<b>Connectors:</b>	"F" type

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