

## ILM & PCSD SERIES PCB MOUNTABLE LOGARITHMIC AMPLIFIERS



**10 MHz to 500 MHz**  
**Size <0.5 cu.in**  
**P.C.B.Mountable**  
**70/80 dB Dynamic Range**

The Pascall series of Logarithmic Amplifiers provide broadband performance and superb linearity over a wide temperature range. The ILM and PCSD ranges provide the designer with direct PCB mounting units for use where space and weight are at a premium.

The ILM and PCSD ranges of logarithmic amplifiers are robustly constructed in lightweight aluminium alloy housings and are designed to withstand harsh mechanical environments.

This range is specified for operation over a case temperature range of -45°C to +85°C.

Supply voltage options are +/- 12 Volts and +/- 15 Volts with a total dc input power of 2.25 Watts.

The small size and weight makes these units an ideal choice for compact airborne equipment designs where low power dissipation is vital to maintain high reliability and performance.

Pascall has a large range of alternative logarithmic amplifiers covering centre frequencies from 10 MHz to 1 GHz and is also able to design models to meet customers' specific requirements.

**ILM & PCSD SERIES PCB MOUNTABLE LOGARITHMIC AMPLIFIERS**

<b>Centre Frequency</b>	10 - 500 MHz
<b>Dynamic Range</b>	ILM up to 75dB, PCSD up to 80dB
<b>Linearity</b>	
<b>Over Frequency @ 25°C</b>	+/- 1.0dB
<b>Over Frequency and Temp</b>	+/- 2.0dB max
<b>Variation of Log Slope (over freq and temp -45 to +85°C)</b>	+/- 5% max
<b>Variation of Log Output (over freq and temp -45 to +85°C)</b>	+/- 30mV max
<b>Video Output @ 0dBm</b>	2.0V nominal
<b>Log Slope</b>	25mV / dB standard
<b>Pulse Rise Time</b>	Dependent on Centre Frequency
<b>Input VSWR</b>	2 : 1 max
<b>Power Supply</b>	*+12V or +15 Volts @ 50mA typical *-12V or -15Volts @ 100mA typical
<b>Size</b>	ILM 51 x 22 x 7mm PCSD 59 x 25.5 x 6.7mm
<b>Weight</b>	ILM 16g PCSD 28g
<b>Connectors</b>	Pins
<b>Case Temperature Range</b>	
<b>Operating</b>	*-45 to +85°C
<b>Storage</b>	-55 to +100°C
	*options available

**Ordering Information**

**ILM/PCSDX-XXXXX-XXX-XXX-X**

