

160 MHz ULTRA-MINIATURE LOGARITHMIC AMPLIFIER



120 MHz to 200 MHz
Log Linearity at 160 MHz +/-1.0dB
Linearity over Temperature
and Frequency +/- 2.0dB max

The Pascall Ultra-Miniature series of Logarithmic Amplifiers provide broadband performance and superb linearity over a wide temperature range.

The UMSD range 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 2.7 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.

160 MHz ULTRA-MINIATURE LOGARITHMIC AMPLIFIER

Frequency Range	120 - 200 MHz
Dynamic Range	-65 to +5dBm min
Linearity Over Frequency @ 25°C	+/- 1.0dB
Over Frequency and Temp	+/- 2.0dB max
Variation of Log Slope (over freq and temp -45 to +85°C)	+/- 5% max
Variation of Log Output (over freq and temp -45 to +85°C)	+/- 30mV max
Video Output @ 0dBm	2.0V nominal
Log Slope	25mV / dB nominal
Optional Electronic Offset Adjust	+/- 100mV min
Pulse Rise Time	<20ns
Pulse Fall Time	<85ns
Input VSWR	2 : 1 max
Power Supply	*+12V or +15 Volts @ 60mA *-12V or -15Volts @ 120mA
IF Limited Output	0±2dBm
Size	63.5 x 25.4 x 10.3mm
Weight	28g
Connectors	SMA
Case Temperature Range - operating	*-45 to +85°C
storage	-55 to +100°C
	*options available

Ordering Information

UMSDBB-16080-AXX-XXX

