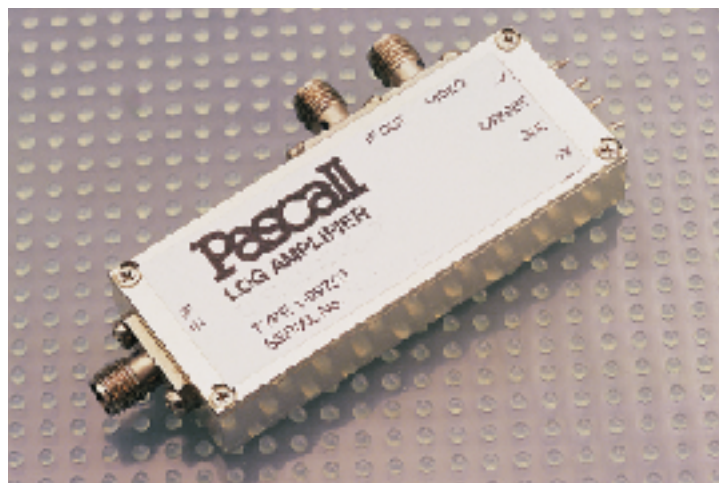


160 MHz Ultra-Miniature Logarithmic Amplifier

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

UMSDBB 16080 DATA

Frequency Range	120 - 200 MHz
Dynamic Range	-65 to +5dBm min
Linearity	+/- 1.0dB
Over Frequency @ 25°C	+/- 2.0dB max
Over Frequency and Temp	+/- 5% max
Variation of Log Slope (over freq and temp -45 to +85°C)	+/- 30mV max
Variation of Log Output (over freq and temp -45 to +85°C)	2.0V nominal
Video Output @ 0dBm	25mV / dB nominal
Log Slope	+/- 100mV min
Optional Electronic Offset Adjust	<20ns
Pulse Rise Time	<85ns
Pulse Fall Time	2 : 1 max
Input VSWR	*+12V or +15 Volts @ 60mA
Power Supply	*-12V or -15Volts @ 120mA
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

Without video filter 00:
With video filter specify Fc in MHz
Limited I.F. Output 0 = with; 1 = without

Temp.Range 1 = 0 to 60°C
2 = -45 to +85°C

Supply Voltage 1 = ±12V
2 = ±15V

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The right is reserved to amend the specifications of the products without notice

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