



Pascall's Quality System
Is Registered Under
BS EN ISO 9001



FM 132/4
BS EN ISO 9001

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Pascall

WIRELESS COMMS

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1GHz Ultra-Miniature Logarithmic Amplifier

750 MHz to 1250 MHz

Log Linearity at
1000 MHz +/-1.0dB

Linearity over Temperature and
Frequency +/-2.0dB max



The existing Pascall Ultra-Miniature series of Logarithmic Amplifiers has now been extended to include a 1GHz wideband amplifier.

The UMLA range is robustly constructed in lightweight aluminium alloy housings and designed to withstand harsh mechanical environments. All units offer exceptional linearity over the case temperature range -45°C to +85°C.

Pascall are also able to design models to meet customer's special requirements.

1GHz Ultra-Miniature Logarithmic Amplifier

UMLA 1-500 DATA

Frequency Range	750 - 1250 MHz
Dynamic Range	-65 to 0dBm min
Linearity	+/- 1.0dB
Over Frequency @ 25°C	
Over Frequency and Temperature	+/- 2.0dB max
Variation of Log Slope (over freq and temp)	+/- 5% max
Variation of Log Output (over freq and temp)	+/- 30mV max
Video Output @ 0dBm	1.0V nominal
Log Slope	15mV / dB nominal
Optional Electronic Offset Adjust	+/- 100mV min
Pulse Rise Time	< 10ns
Pulse Fall Time	< 35ns
Input VSWR (max)	2 : 1
Output VSWR (max)	2 : 1
Power Supply	+12V or +15Volts @ 50mA
	-12V or -15Volts @ 100mA
Size	63.5 x 25.4 x 10.3mm
Connectors	SMA
Case Temperature Range (operating)	-45 to +85°C