

1GHz Ultra-Miniature Frequency Discriminators



Centre Frequency 1 GHz

Frequency Accuracy <5%

Linear Bandwidth >50%

Power Dissipation from 0.5W

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

The UMDLD range of discriminators 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 maximum of -45°C to +85°C.

The standard supply voltage is +/- 5 Volts and options are available for +/-12 and +/-15 Volts. The +/-5 Volt unit has a power dissipation of less than 0.5 Watts. This offers distinct advantages in thermal stability making it the ideal choice for compact airborne equipment designs where low power dissipation is vital to maintain high reliability and performance.

Pascall have a large range of alternative discriminators covering centre frequencies from 10 MHz to 1 GHz and are also able to design models to meet customers specific requirements.

Frequency Range	750 - 1250 MHz
Video Output Slope (Typical)	10mV / MHz
Frequency Accuracy	
@25°C	+/- 10 MHz
Over Temp range	+/- 25 MHz
Optional Electronic Offset Adjust	+/- 100mV min
Rated Input Level	0 dBm to -10 dBm
Pulse Rise Time	< 10ns
VSWR	2 : 1 max
Power Supply	+ 5 Volts @ 25mA std. +12 / +15 @ 30mA options - 5 Volts @ 70mA std. -12 / -15 @ 85mA options
Size	63.5 x 25.4 x 10.3 mm
Weight	28g
Connectors (operating)	SMA
Case Temperature Range	
(operating)	* -45 to +85°C
(storage)	-55 to +100°C
	*option available
Ordering Information	UMDLD-1-500-AXX
	Temp.Range 1 = 0 to 60°C 2 = -45 to +85°C
	Supply Volts 1 = ±12V 2 = ±15V 3 = ±5V