

## 160 MHz ULTRA-MINIATURE FREQUENCY DISCRIMINATOR



**Centre Frequency 160 MHz**  
**Frequency Accuracy <5%**  
**Linear Bandwidth >50%**  
**Power Dissipation from 0.6W**

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 0.6 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.

**160 MHz ULTRA-MINIATURE FREQUENCY DISCRIMINATOR**

<b>Frequency Range (Linear)</b>	120 - 200 MHz
<b>Peak to Peak Bandwidth</b>	100 MHz min
<b>Video Output Slope (Typical)</b>	20mV / MHz
<b>Frequency Accuracy @25°C</b>	+/- 2 MHz (over 80 MHz Bandwidth)
<b>Over Temp range</b>	+/- 5 MHz
<b>Optional Electronic Offset Adjust</b>	+/- 100mV min
<b>Rated Input Level</b>	0 dBm to -10 dBm
<b>Pulse Rise Time</b>	< 20ns
<b>Pulse Fall Time</b>	< 20ns
<b>VSWR</b>	2 : 1 max
<b>Power Supply</b>	*+ 5 Volts @ 30mA std. +12 / +15 @ 30mA *- 5 Volts @ 75mA std. -12 / -15 @ 85mA
<b>Size</b>	63.5 x 25.4 x 10.3 mm
<b>Weight</b>	28g
<b>Connectors</b>	SMA
<b>Case Temperature Range</b>	
<b>operating</b>	* -45 to +85°C
<b>storage</b>	-55 to +100°C
	*options available

**Ordering Information**

**UMDL-160-80-AXX**

Temp.Range 1 = 0 to 60°C

2 = -45 to +85°C

Supply Voltage 1 = ±12V

2 = ±15V

3 = ±5V