

## 160MHz Digital Phase Detector

Accurate Phase & Amplitude  
Measurement

8 bit Digital Output

75ns Pulse Capture



The Pascall Digital Phase Detector (DPD) performs high speed measurement of the absolute phase difference between the two input signals and presents the result as an 8-bit word for further digital processing.

The DPD comprises logarithmic detectors, constant transmission phase limiting amplifiers, a precision in-phase & quadrature detector and high speed analogue to digital conversion circuits.

Capable of capturing pulse widths down to 75ns and providing accurate amplitude measurements of both input signals over a dynamic range of -60 to 0dBm this unit is a highly integrated, multi-functional component.

Contained within a compact lightweight aluminium alloy housing, the DPD is robustly constructed and designed to withstand harsh mechanical environments.

Applications include interferometry systems, direction finding and instantaneous frequency measurements as well as test systems.

