

# PDS2000 10 TO 2000 MHz TWO-WAY IN-PHASE POWER DIVIDER

Typical Values	<b>PDS2000</b>
Frequency Range .....	10-2000 MHz†
Insertion Loss .....	0.75 dB
Amplitude Balance .....	0.05 dB
Phase Balance .....	0.5 Deg.
VSWR (All Ports) .....	1.2:1
Isolation .....	25.0 dB

## SPECIFICATIONS\*

Parameter	Frequency	Typical	Guaranteed -55 to +85 °C
Input VSWR Ratio (Max.)	10-500 MHz	1.25:1	1.4:1
	500-2000 MHz	1.15:1	1.3:1
Output VSWR Ratio (Max.)	10-500 MHz	1.2:1	1.5:1
	500-1000 MHz	1.15:1	1.3:1
	1000-1500 MHz	1.18:1	1.3:1
	1500-2000 MHz	1.18:1	1.3:1
Insertion Loss (Max.)	10-500 MHz	0.5 dB	1.0 dB
	500-1000 MHz	1.0 dB	1.25 dB
	1000-1500 MHz	1.2 dB	1.5 dB
	1500-2000 MHz	1.5 dB	2.0 dB
Amplitude Balance (Max.)	10-500 MHz	±0.05 dB	±0.1 dB
	500-1000 MHz	±0.05 dB	±0.2 dB
	1000-1500 MHz	±0.05 dB	±0.3 dB
	1500-2000 MHz	±0.05 dB	±0.4 dB
Phase Balance (Max.)	10-500 MHz	±0.1 Deg.	±1.0 Deg.
	500-1000 MHz	±0.4 Deg.	±2.0 Deg.
	1000-1500 MHz	±0.6 Deg.	±3.0 Deg.
	1500-2000 MHz	±0.75 Deg.	±4.0 Deg.
Isolation (Min.)	10-50 MHz	25.0 dB	15.0 dB
	50-500 MHz	27.0 dB	20.0 dB
	500-2000 MHz	25.0 dB	20.0 dB

\* Measured in a 50-ohm system.

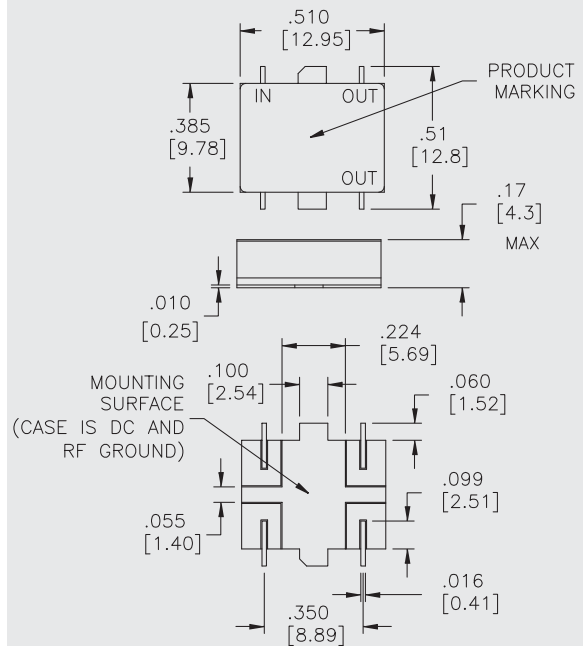
† Usable to 3000 MHz.

## ABSOLUTE MAXIMUM RATINGS

Storage Temperature .....	-65 to +125 °C
Operating Temperature .....	-54 to +100 °C
Maximum Input Power .....	1 Watt
Internal Load Dissipation .....	100 mW

## PDS2000

### Surface Mount Package for Power Divider



DIMENSIONS ARE IN INCHES [MILLIMETERS]

**TYPICAL PERFORMANCE**

KEY: +25 °C —  
 +85 °C - - -  
 -55 °C - - -

