

# PDTS1000      5 TO 1000 MHz TWO-WAY IN-PHASE POWER DIVIDER

Typical Values	<b>PDTS1000</b>
Frequency Range .....	5-1000 MHz
Insertion Loss .....	0.35 dB
Amplitude Balance .....	0.05 dB
Phase Balance .....	0.2 Deg.
VSWR (All Ports) .....	1.15:1
Isolation .....	27.0 dB

## SPECIFICATIONS\*

Parameter	Frequency	Typical	Guaranteed -55 to +85 °C
Input VSWR Ratio (Max.)	5-250 MHz	1.05:1	1.3:1
	250-500 MHz	1.05:1	1.3:1
	500-1000 MHz	1.2:1	1.4:1
Output VSWR Ratio (Max.)	5-250 MHz	1.15:1	1.3:1
	250-500 MHz	1.15:1	1.3:1
	500-1000 MHz	1.15:1	1.3:1
Insertion Loss (Max.)	5-250 MHz	0.2 dB	0.5 dB
	250-500 MHz	0.5 dB	1.25 dB
	500-1000 MHz	0.5 dB	1.25 dB
Amplitude Balance (Max.)	5-250 MHz	±0.05 dB	±0.3 dB
	250-500 MHz	±0.05 dB	±0.3 dB
	500-1000 MHz	±0.05 dB	±0.3 dB
Phase Balance (Max.)	5-250 MHz	±0.25 Deg.	±2.0 Deg.
	250-500 MHz	±0.25 Deg.	±2.0 Deg.
	500-1000 MHz	±0.25 Deg.	±2.0 Deg.
Isolation (Min.)	5-250 MHz	27.0 dB	20.0 dB
	250-500 MHz	27.0 dB	20.0 dB
	500-1000 MHz	27.0 dB	20.0 dB

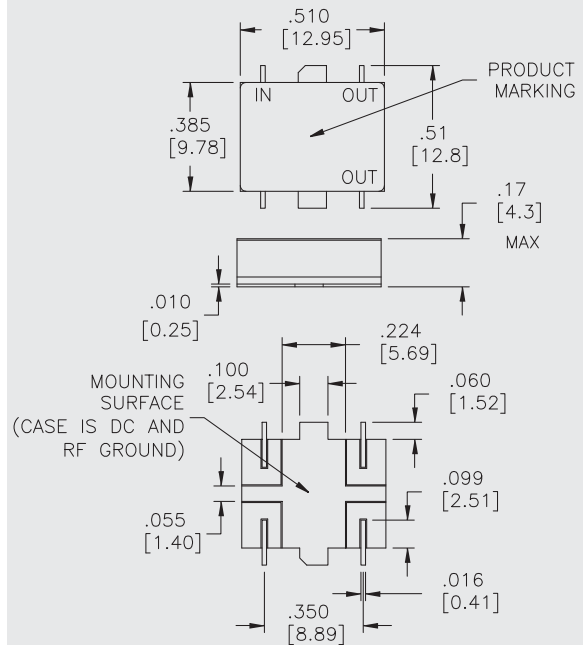
\* Measured in a 50-ohm system.

## 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

## PDTS1000

### Surface Mount Package for Power Divider



DIMENSIONS ARE IN INCHES [MILLIMETERS]

**TYPICAL PERFORMANCE**

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

