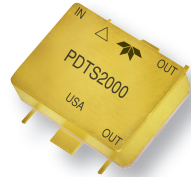




High Performance In-Phase Two-Way Power Dividers
Typical and Guaranteed Specifications—50 Ω System



Model	Frequency Range MHz	Input VSWR		Output VSWR		Insertion Loss (dB)		Amplitude Balance (dB)		Phase Balance (Deg.)		Isolation (dB)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.
Available in Surface Mount Package													
PDTS1000	5-1000												
	5-250	1.05:1	1.3:1	1.15:1	1.3:1	0.2	0.5	±0.05	±0.3	±0.25	±2.0	27	20
	250-500	1.05:1	1.3:1	1.15:1	1.3:1	0.5	1.25	±0.05	±0.3	±0.25	±2.0	27	20
	500-1000	1.2:1	1.4:1	1.15:1	1.3:1	0.5	1.25	±0.05	±0.3	±0.25	±2.0	27	20
PDTS2000	10-2000												
	10-500	1.25:1	1.4:1	1.1:1	1.3:1	0.5	1.0	±0.05	±0.1	±0.1	±1.0	27	20
	500-1000	1.15:1	1.3:1	1.15:1	1.3:1	0.75	1.0	±0.05	±0.2	±0.4	±2.0	25	20
	1000-1500	1.15:1	1.3:1	1.18:1	1.3:1	1.2	1.5	±0.05	±0.3	±0.6	±3.0	25	20
	1500-2000	1.15:1	1.3:1	1.18:1	1.3:1	1.5	2.0	±0.05	±0.4	±0.75	±4.0	25	20

POWER DIVIDERS

Current data sheets available on website.

PDS1000

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

Typical Values	PDS1000
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

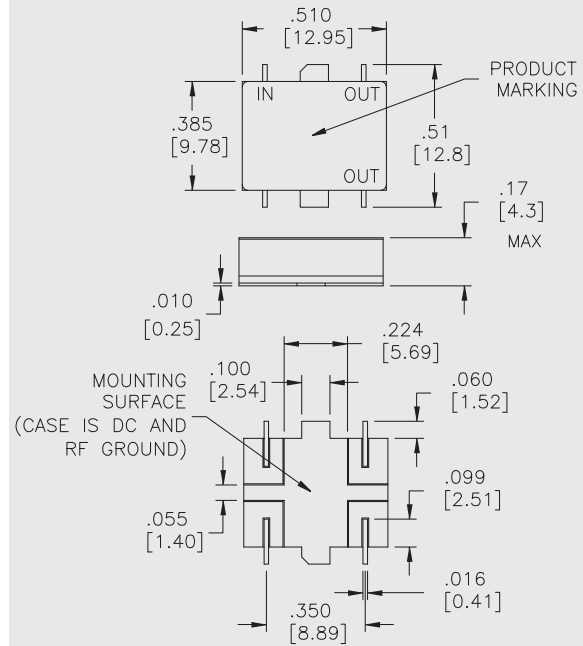
* Measured in a 50-ohm system.

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

PDS1000

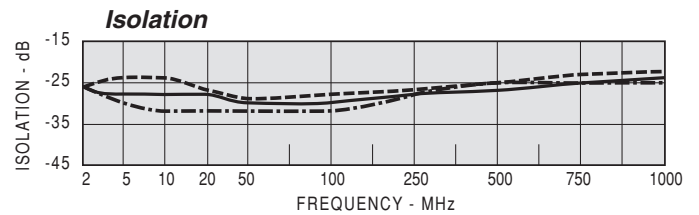
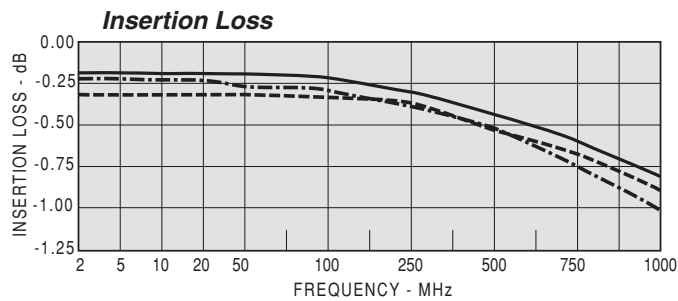
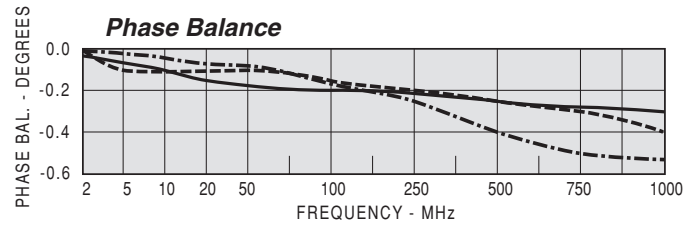
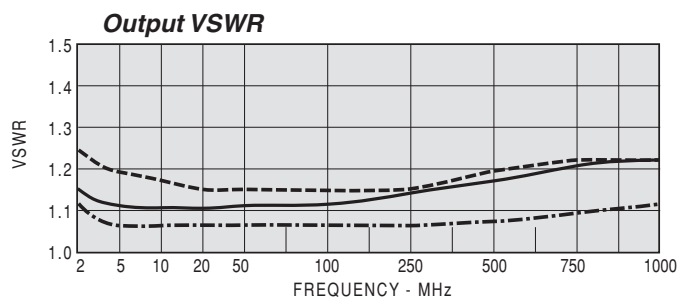
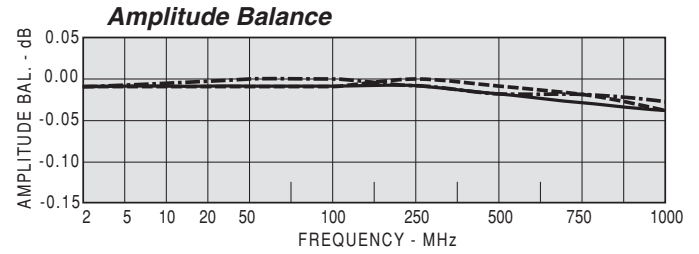
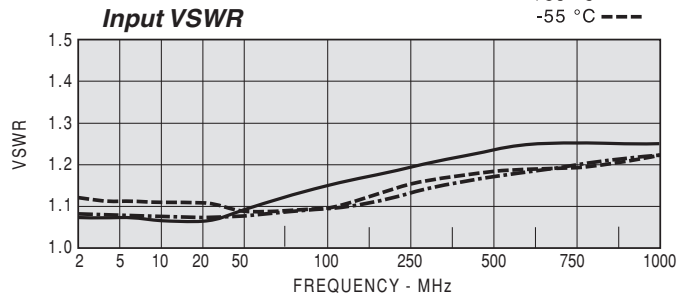
Surface Mount Package for Power Divider



DIMENSIONS ARE IN INCHES [MILLIMETERS]

TYPICAL PERFORMANCE

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



PDS2000

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

Typical Values	PDS2000
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
	1000-2000 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

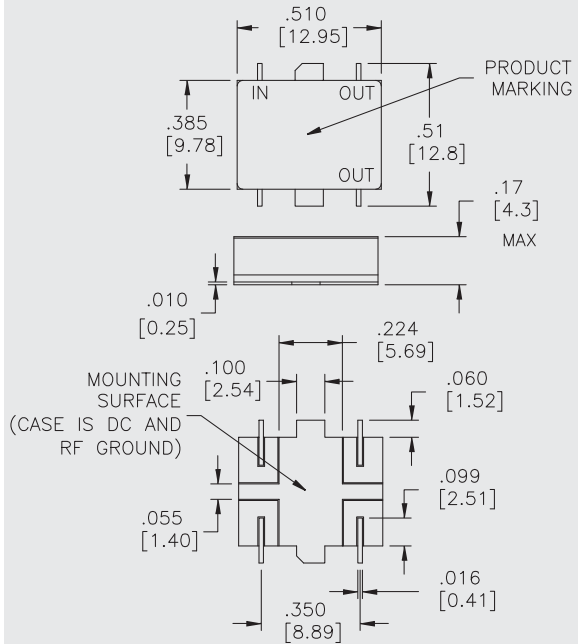
* Measured in a 50-ohm system.
† Usable to 3000 MHz.

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 - - -

