

2-WAY POWER DIVIDER

SURFACE MOUNT MODEL: SPD-C1

WIDE BANDWIDTH

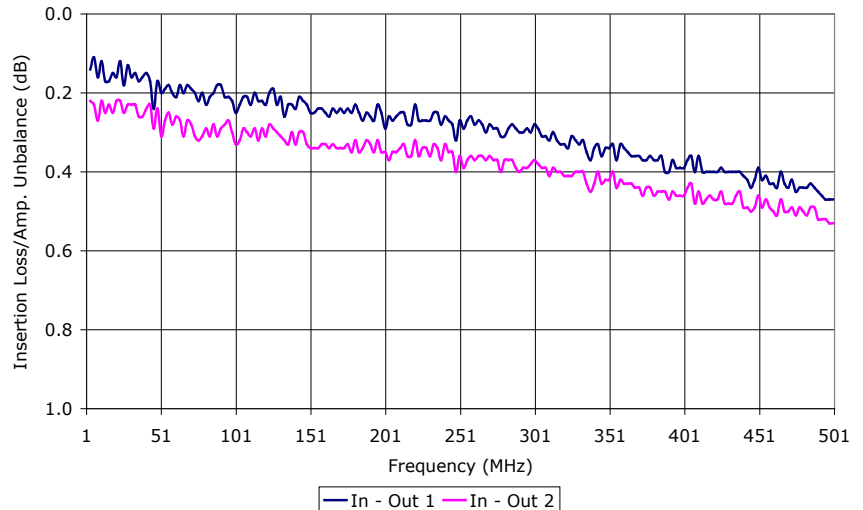
1 - 500 MHz

FEATURES:

- ▶ Excellent Performance
- ▶ Small Size, Surface Mount
- ▶ Moderate Power

APPLICATIONS:

- ▶ Signal Splitting & Low Power Combining



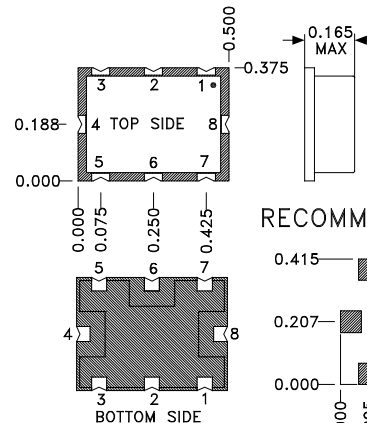
SPECIFICATIONS (Rev. D 05/12/14)

Frequency	1 - 500 MHz		
Insertion Loss (dB) *	Freq. (MHz)	Typ.	Max.
	1 - 10	0.20	0.6
	10 - 250	0.35	0.7
	250 - 500	0.55	1.0
Isolation (dB)	Freq. (MHz)	Typ.	Min.
	1 - 10	35	25
	10 - 250	32	25
	250 - 500	30	20
Phase Unbalance	Freq. (MHz)	Typ.	Max.
	1 - 10	0.4	2.0°
	10 - 250	0.4	2.0°
	250 - 500	0.4	2.0°
Amplitude Unbalance (dB)	Freq. (MHz)	Typ.	Max.
	1 - 10	0.1	0.2
	10 - 250	0.1	0.3
	250 - 500	0.1	0.3
Input Power **	1 Watt (Max.)		
VSWR	Input	Output	
	1.10:1 (Typ.)	1.10:1 (Typ.)	
Impedance	50 Ohms (Nom.)		
Operating Temperature Range	-40 to +85 °C		

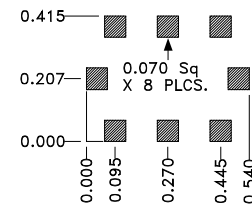
* Above 3.0 dB theoretical split loss.

** Handling power applies to splitter mode and assumes ideal 50 Ohms impedance matching on all ports.

Package # 357



RECOMMENDED PCB LAYOUT



TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7301

Port Configuration		
Input	Output	Ground
6	4,8	All Others

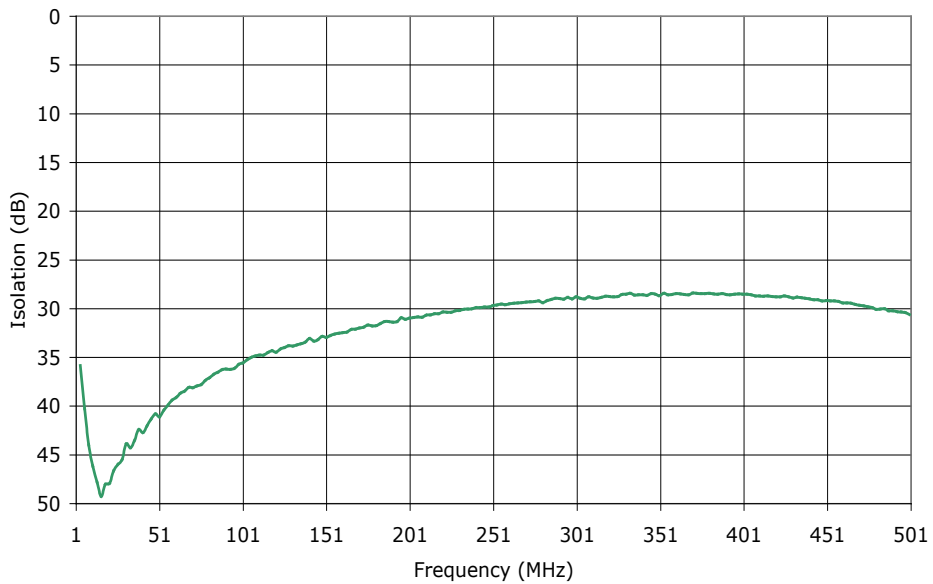
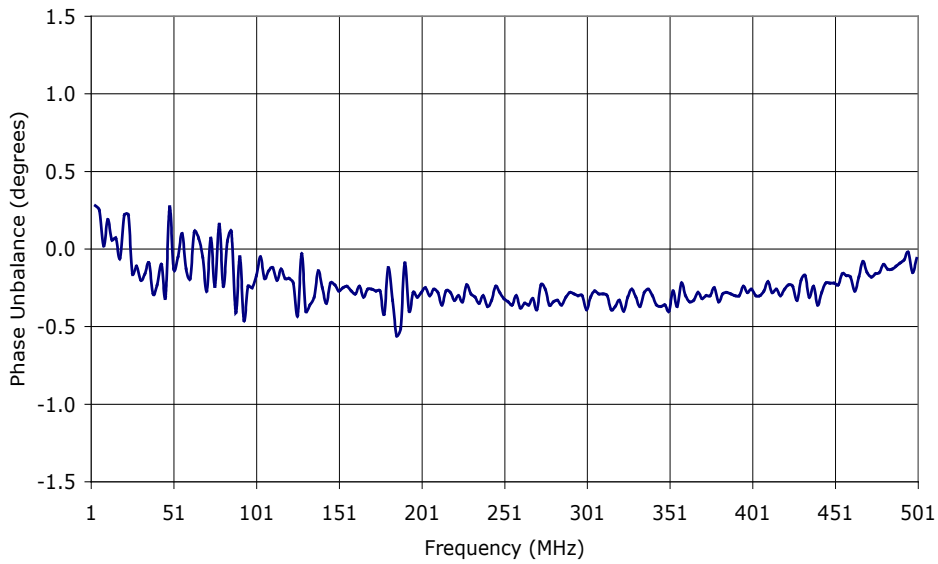
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Data @ 25°C



PERFORMANCE PLOTS

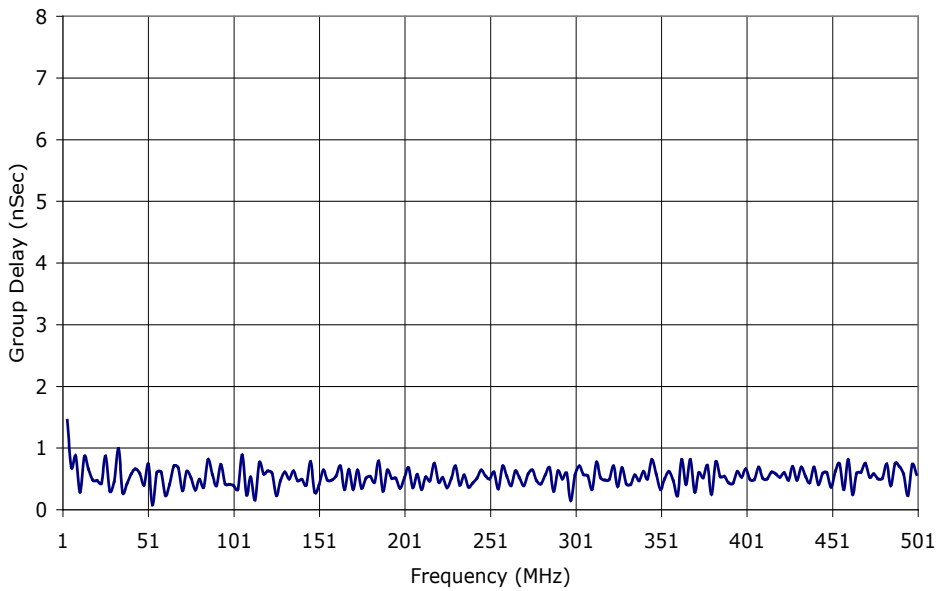
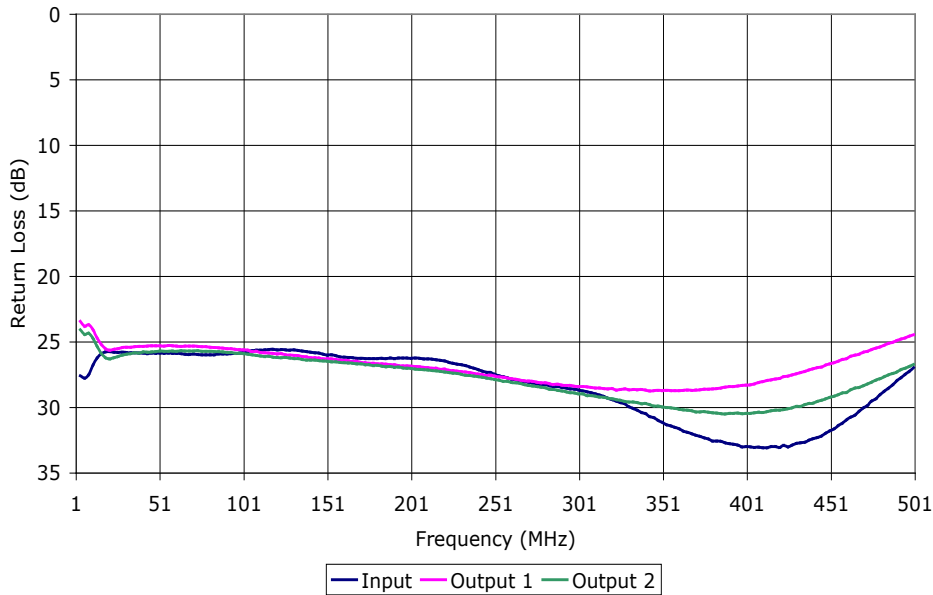
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