

DIRECTIONAL COUPLER

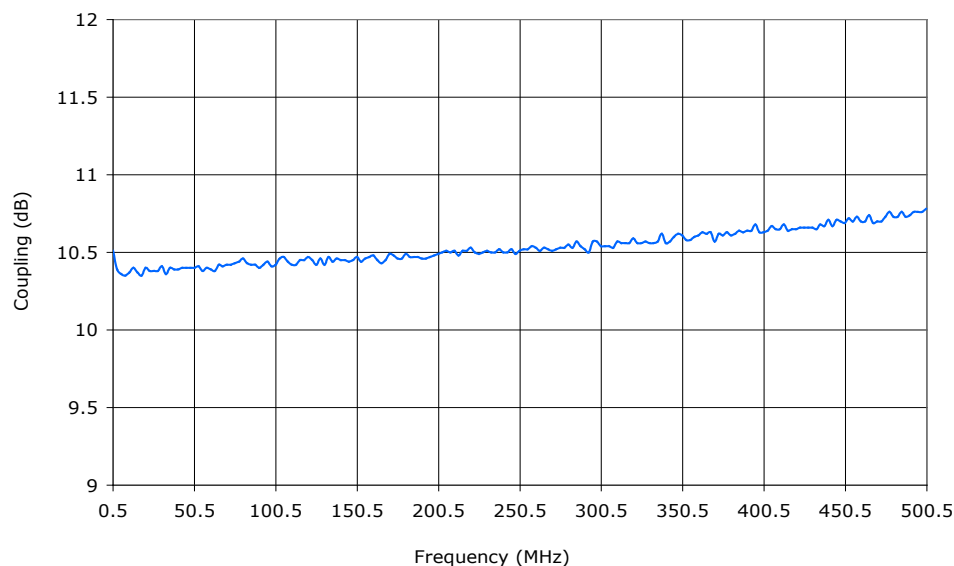
SURFACE MOUNT MODEL: SDC-C1

WIDE BANDWIDTH

0.5 - 500 MHz

FEATURES:

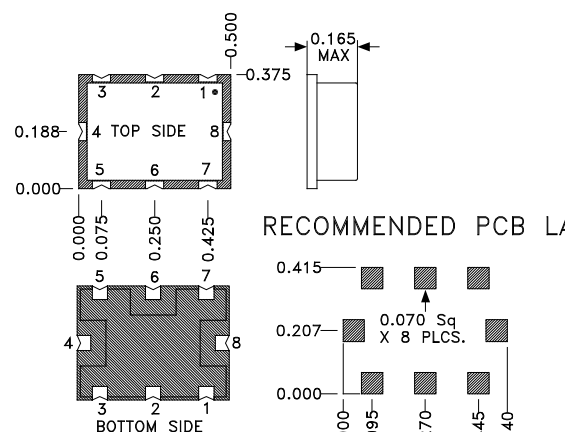
- ▶ Low Insertion Loss
- ▶ Excellent Coupling Flatness
- ▶ High Directivity
- ▶ Lead Free - RoHs Compliant
- ▶ Small Size, Surface Mount



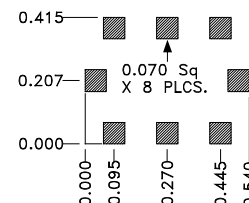
SPECIFICATIONS (Rev. D 12/09/10)

Frequency	0.5 - 500 MHz		
Coupling	10.5 dB $\pm$ 1 dB (Nom.)		
Coupling Flatness	$\pm$ 0.7 dB (Max.)		
Mainline Loss	Freq. (MHz)	dB (Typ.)	dB (Max.)
	0.5-5	1.2	1.4
	5-250	1.0	1.3
	250-500	1.0	1.4
Directivity	Freq. (MHz)	dB (Typ.)	dB (Min.)
	0.5-5	25	20
	5-250	25	20
	250-500	20	15
Impedance	50 Ohms (Nom.)		
VSWR:	1.25:1 (Typ.)		
Operating Temperature Range	-40 to +85 °C		

Package # 357



RECOMMENDED PCB LAYOUT



TOLERANCES ON THREE DECIMAL PLACES= $\pm$ 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7301

PORT CONFIGURATION

Input	Output	Coupled	Gnd.
8	4	6	All Others

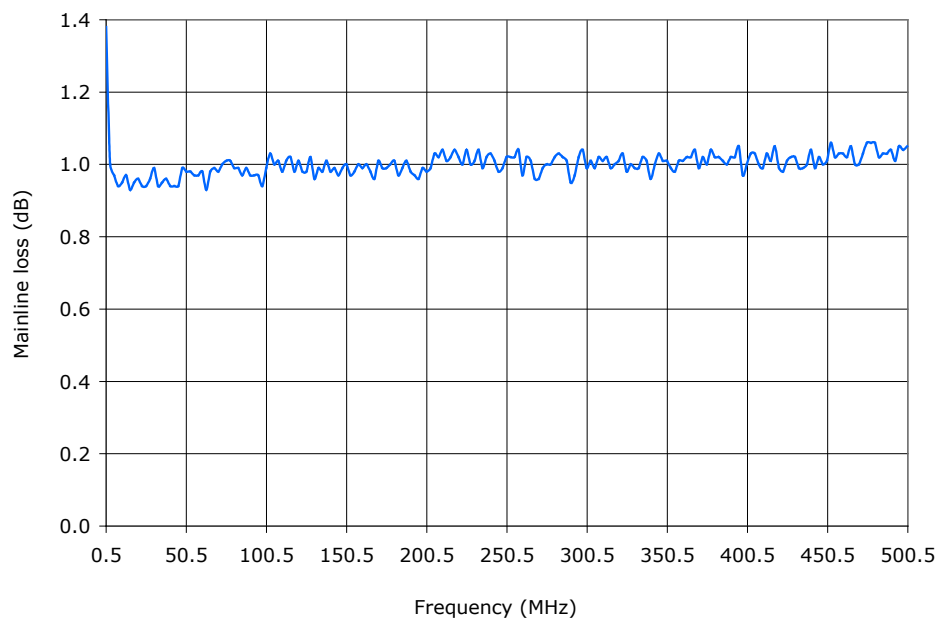
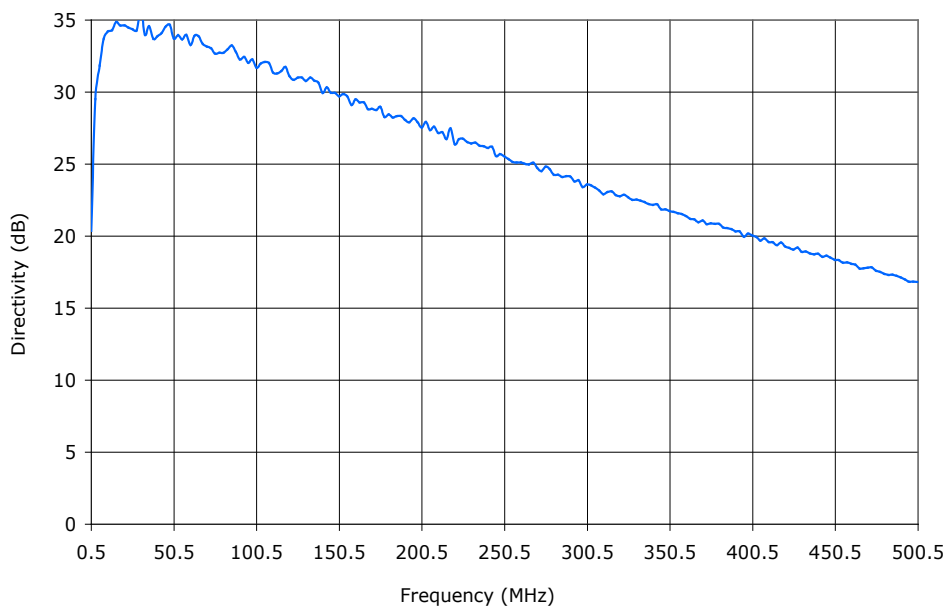
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PERFORMANCE PLOTS

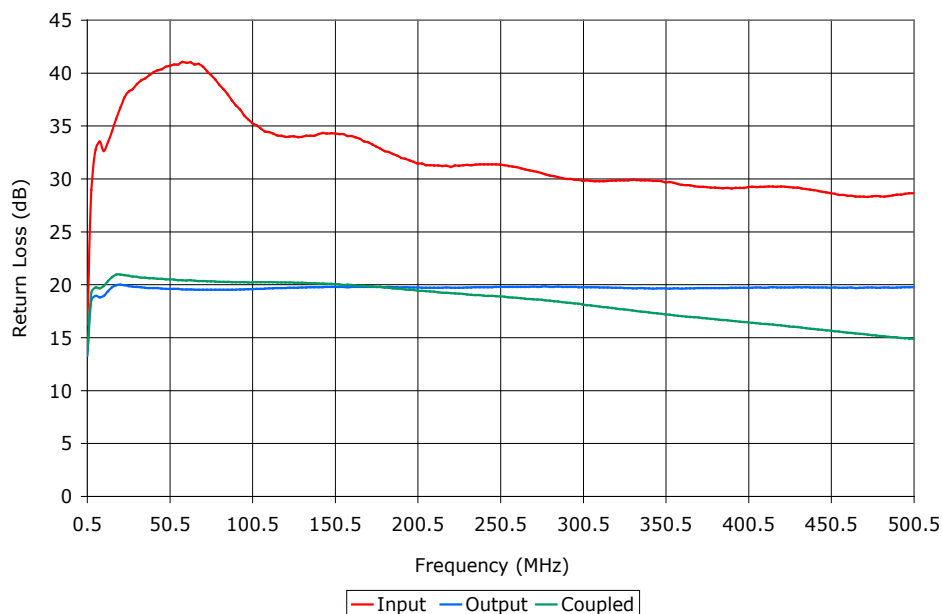


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