

DIRECTIONAL COUPLER

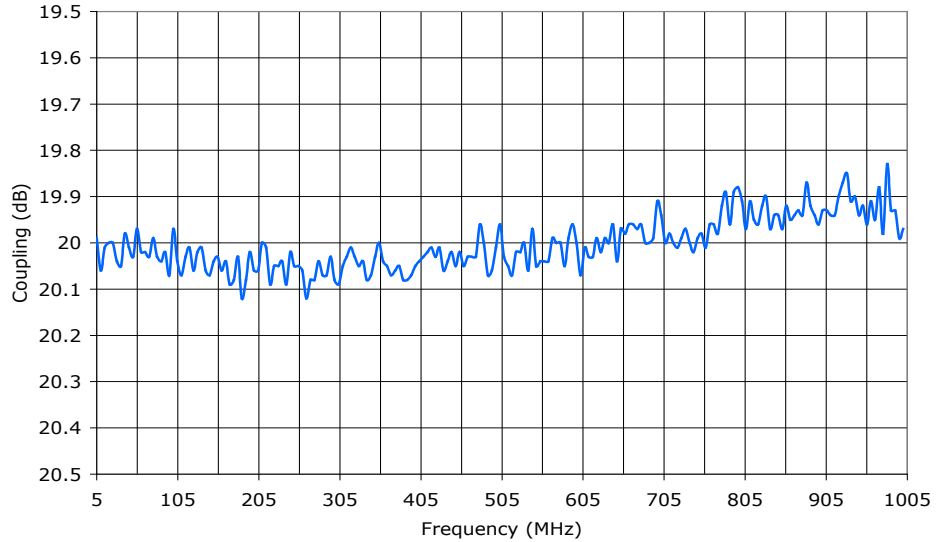
SURFACE MOUNT MODEL: SDC5100D

WIDE BANDWIDTH

5 - 1000 MHz

FEATURES:

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



SPECIFICATIONS (Rev. C 11/08/11)

Frequency	5 - 1000 MHz		
Coupling	20 dB \pm 0.5 dB (Nom.)		
Coupling Flatness	dB (Typ.)	dB (Max.)	
	\pm 0.1	\pm 0.5	
Mainline Loss	Freq. (MHz)	dB(Typ.)	dB(Max.)
	5-50	0.30	0.60
	50-500	0.45	0.75
Directivity	Freq. (MHz)	dB(Typ.)	dB(Min.)
	5-50	27	23
	50-500	30	23
Directivity	Freq. (MHz)	dB(Typ.)	dB(Min.)
	5-50	27	23
	50-500	30	23
500-1000	24	18	
Input Power	1 Watt (Max.)		
Output Impedance	50 Ohms (Nom.)		
VSWR:	1.2:1 (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

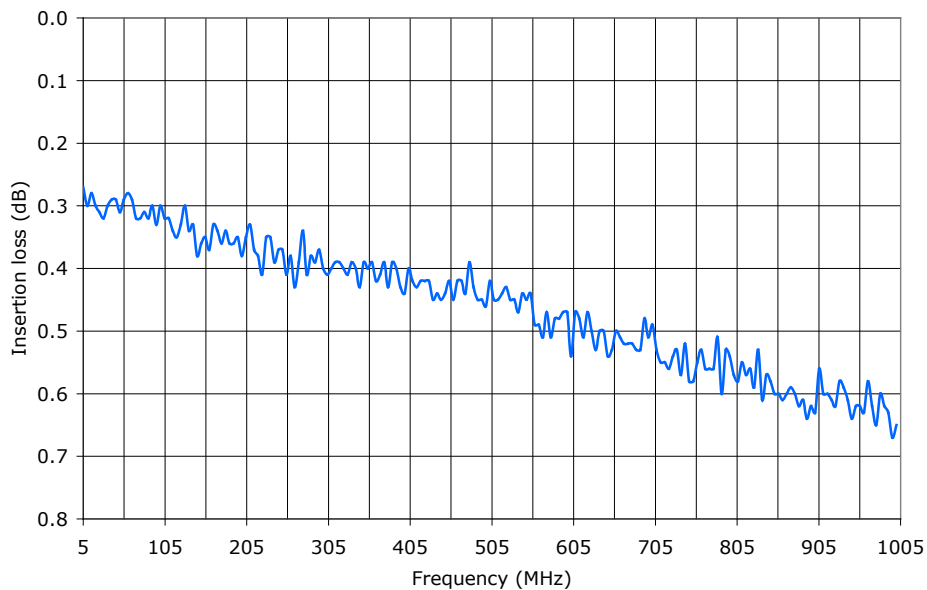
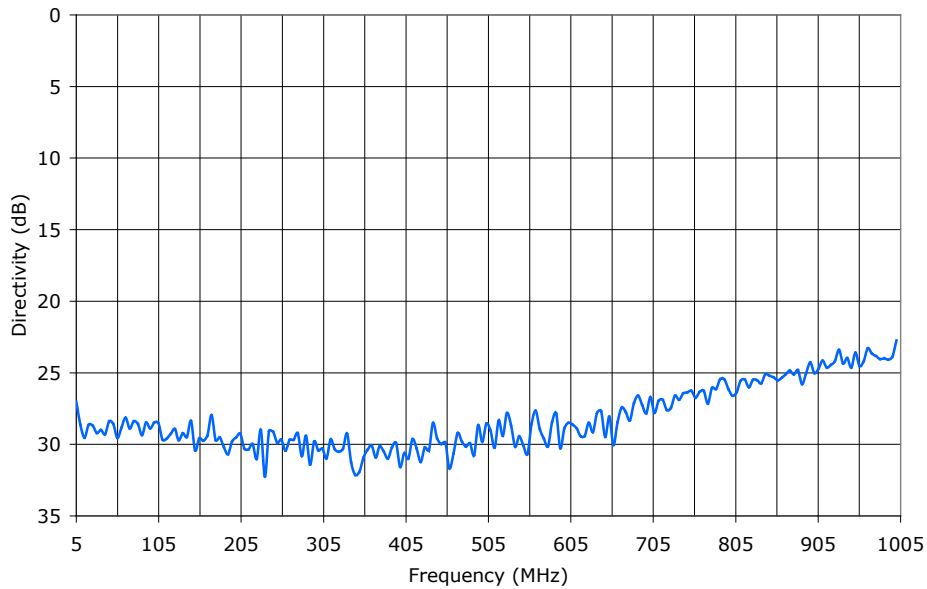
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PERFORMANCE PLOTS

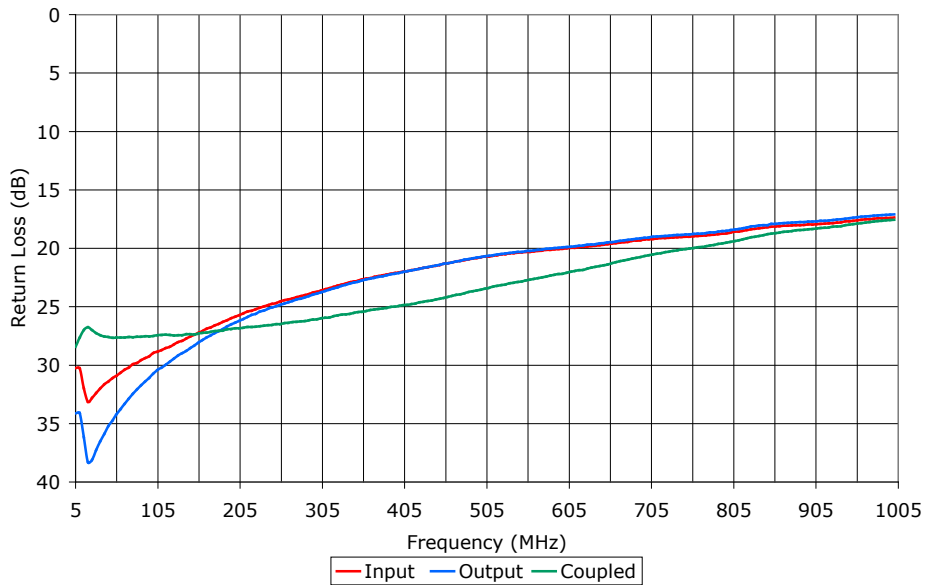


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