

BI-DIRECTIONAL COUPLER

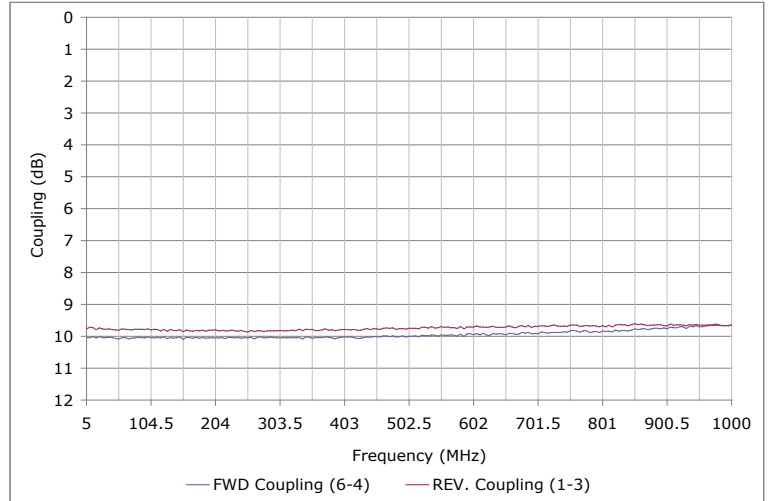
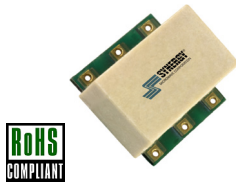
SURFACE MOUNT MODEL: SC5100BD

WIDE BANDWIDTH

5 - 1000 MHz

FEATURES:

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



SPECIFICATIONS (Rev. B 02/04/14)

Frequency	5 - 1000 MHz		
Coupling	10 dB ±1 dB (Nom.)		
Coupling Flatness	±0.7 dB		
Mainline Loss	Freq. (MHz)	dB (Typ.)	dB (Max.)
	5 - 50	0.8	1.2
	50 - 500	1.0	1.5
	500 - 1000	1.4	1.9
Directivity	Freq. (MHz)	dB (Typ.)	dB (Min.)
	5 - 50	23	20
	50 - 500	23	20
	500 - 1000	27	20
Input Power Rating	1 Watt (Max.)		
Impedance	50 Ohms (Nom.)		
VSWR:	1.4:1 (Typ.)		
Operating Temperature Range	-40 to +85 °C		

Package # 134LF

REL-PRO PATENT NO. 7,612,296

RECOMMENDED PCB LAYOUT

DIMENSIONS ARE IN INCHES.

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7300

PORT CONFIGURATION				
Input	Output	Forward Coupled	Reverse Coupled	Gnd.*
6	1	4	3	2,5

* Ground externally.

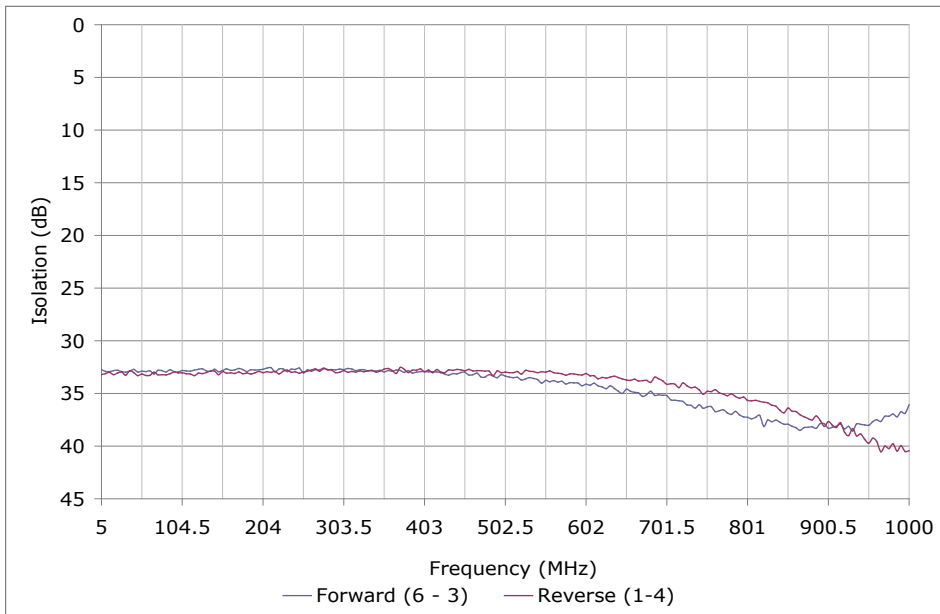
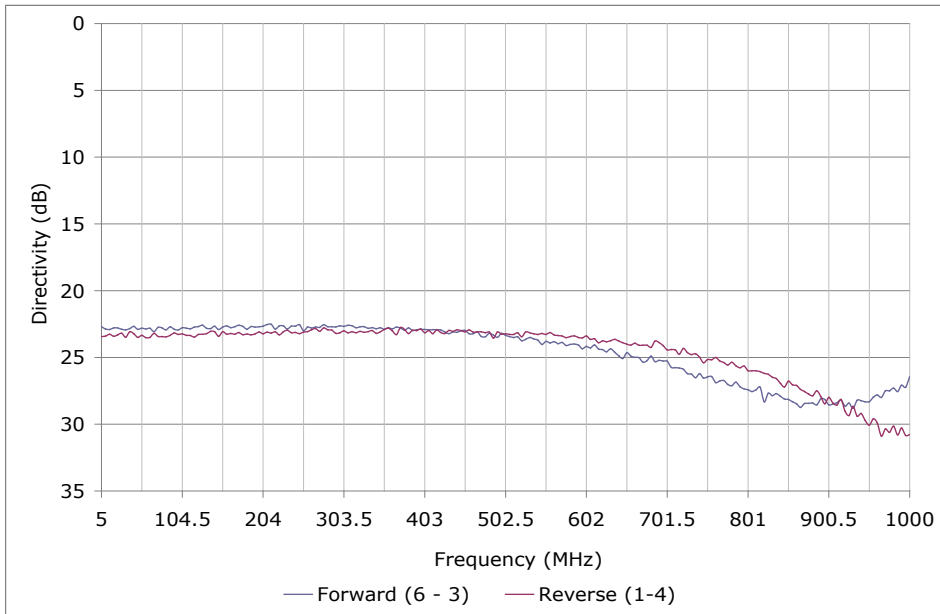
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PERFORMANCE PLOTS



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