

# BI-DIRECTIONAL COUPLER

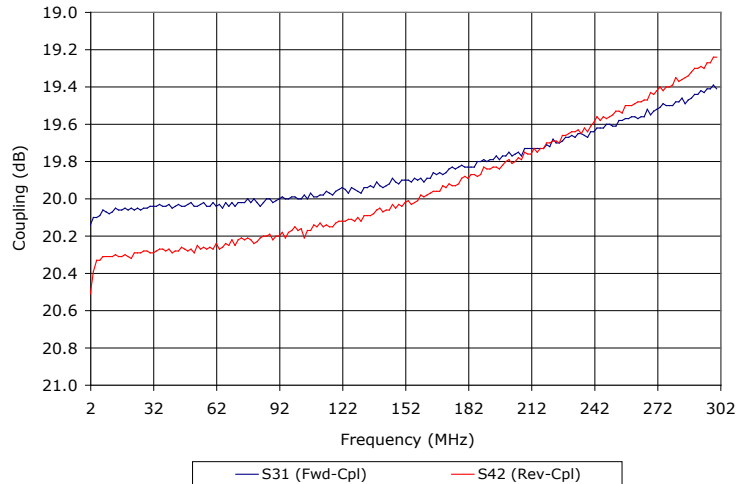
## SURFACE MOUNT MODEL: SCL-1D-BD

WIDE BANDWIDTH

2 - 300 MHz

**FEATURES:**

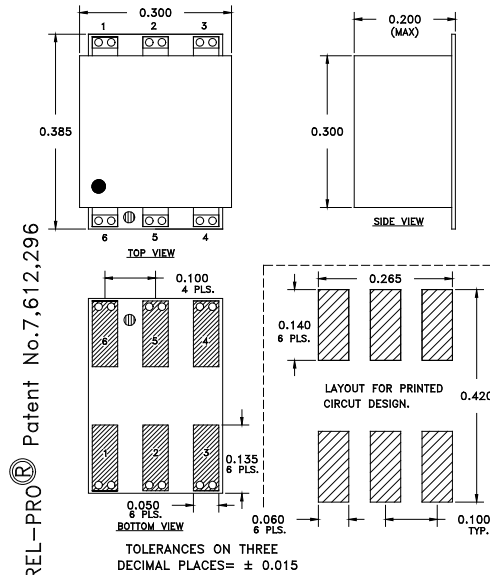
- ▶ Low Insertion Loss
- ▶ Excellent Coupling Flatness
- ▶ High Directivity
- ▶ Lead Free Patented Rel-Pro® Technology
- ▶ Small Size, Surface Mount



**SPECIFICATIONS (Rev. A 10/16/09)**

<b>Frequency</b>	2 - 300 MHz		
<b>Coupling</b>	19.8 dB ±0.9 dB (Nom.)		
<b>Coupling Flatness</b>	±0.9 dB		
<b>Mainline Loss</b>	Freq. (MHz)	dB (Typ.)	dB (Max.)
	2 - 20	0.35	0.4
	20 - 150	0.25	0.5
	150 - 300	0.35	0.5
<b>Directivity</b>	Freq. (MHz)	dB (Typ.)	dB (Min.)
	2 - 20	24	16
	20 - 150	30	18
	150 - 300	20	15
<b>Input Power Rating</b>	1 Watt (Max.)		
<b>Impedance</b>	50 Ohms (Nom.)		
<b>VSWR:</b>	1.1:1 (Typ.)		
<b>Operating Temperature Range</b>	-40 to +85 °C		

**Package #** 159LF



**PORT CONFIGURATION**

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

\* Ground externally.

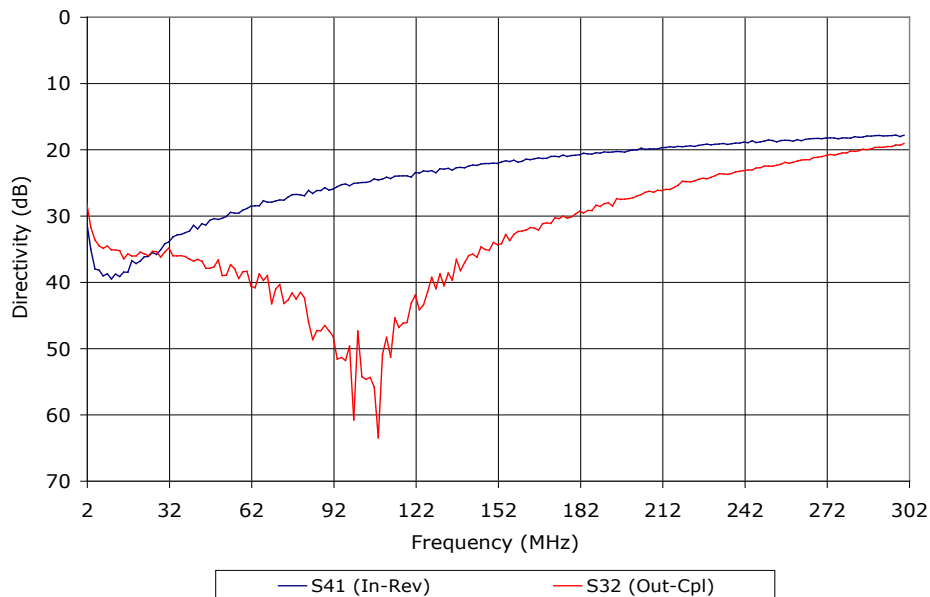
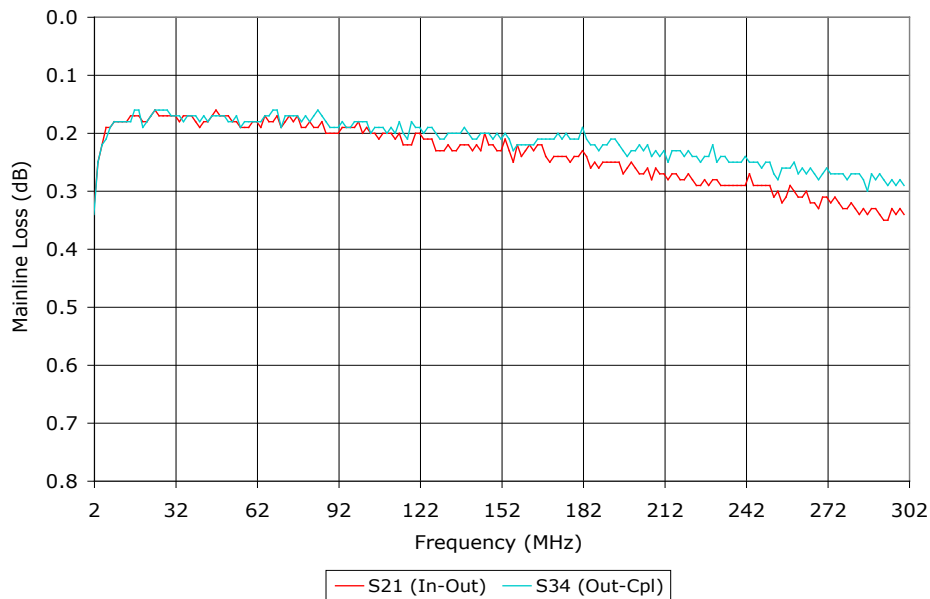
# BI-DIRECTIONAL COUPLER

## SURFACE MOUNT MODEL: SCL-1D-BD

WIDE BANDWIDTH

2 - 300 MHz

PERFORMANCE PLOTS

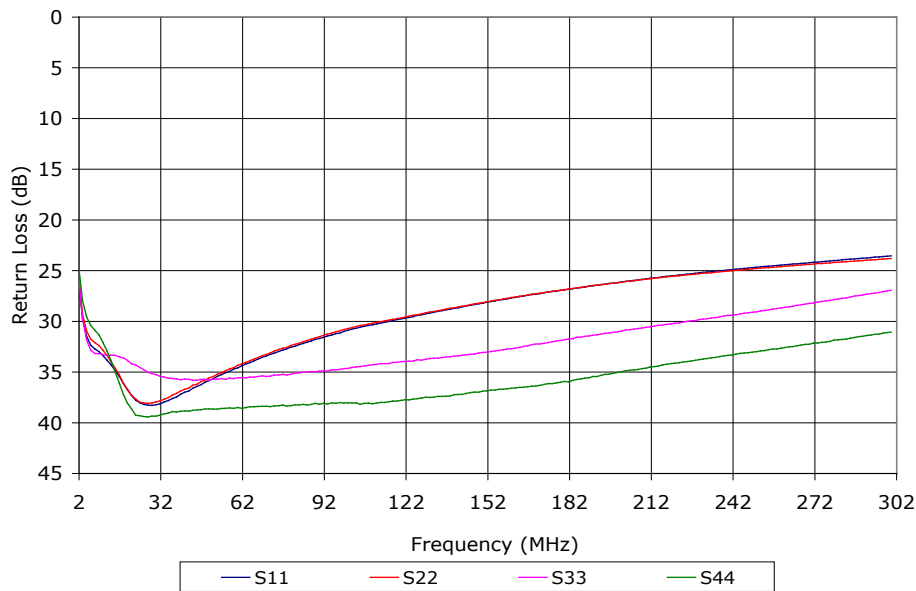


# BI-DIRECTIONAL COUPLER

## SURFACE MOUNT MODEL: SCL-1D-BD

WIDE BANDWIDTH

2 - 300 MHz



PERFORMANCE PLOTS