

# DIRECTIONAL COUPLER

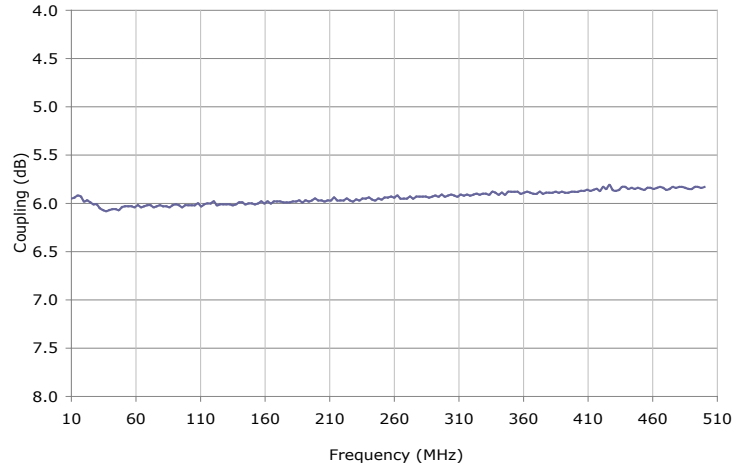
## SURFACE MOUNT MODEL: GC6-1

**WIDE BANDWIDTH**

**10 - 500 MHz**

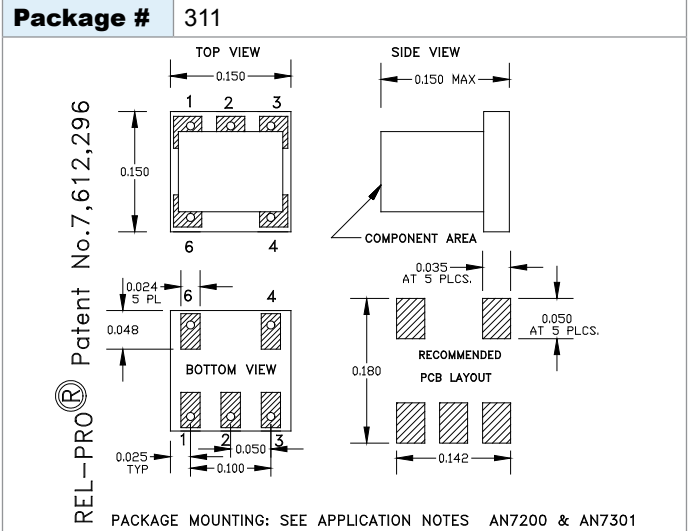
**FEATURES:**

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



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

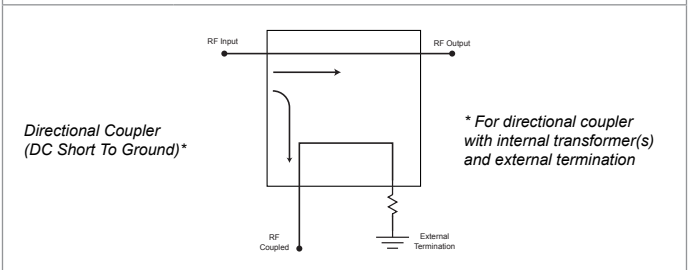
<b>Frequency</b>	10 - 500 MHz		
<b>Coupling</b>	6 dB ±0.5 dB (Nom.)		
<b>Coupling Flatness</b>	±1.0 dB		
<b>Mainline Loss</b>	Freq. (MHz)	dB (Typ.)	dB (Max.)
	10 - 50	1.8	2.2
	50 - 250	1.8	2.3
<b>Directivity</b>	Freq. (MHz)	dB (Typ.)	dB (Min.)
	10 - 50	34	20
	50 - 250	32	20
	250 - 500	26	18
<b>Input Power Rating</b>	1 Watt (Max.)		
<b>Impedance</b>	50 Ohms (Nom.)		
<b>VSWR:</b>	1.50:1 (Typ.)		
<b>Operating Temperature Range</b>	-40 to +85 °C		



**PORT CONFIGURATION**

Input	Output	Coupled	Isolated*	Gnd.
6	1	4	3	2

\* Terminate with 50 Ohms externally.



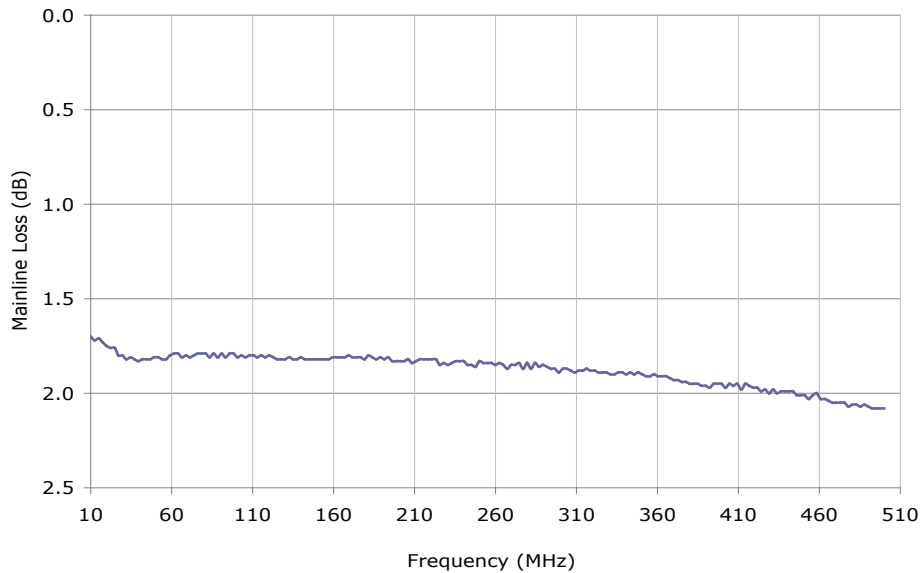
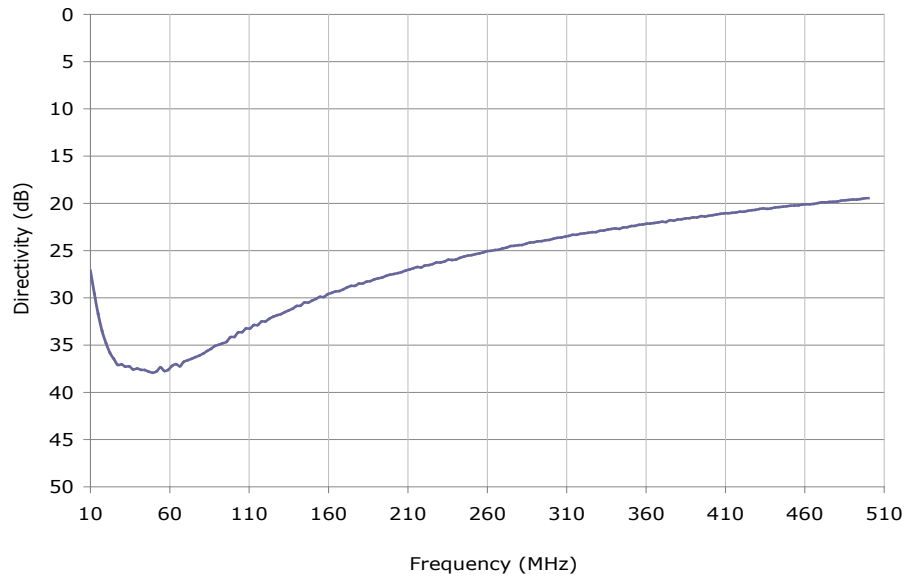
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PERFORMANCE PLOTS

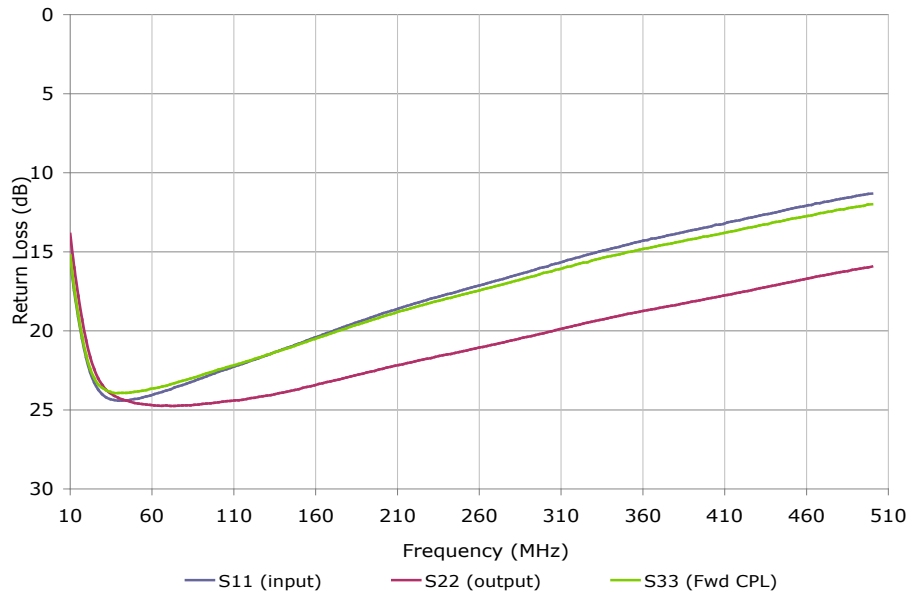


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