

# 180° HYBRID

## SURFACE MOUNT MODEL: SMJ-C2

**WIDE BANDWIDTH**

**1 - 600 MHz**

**FEATURES:**

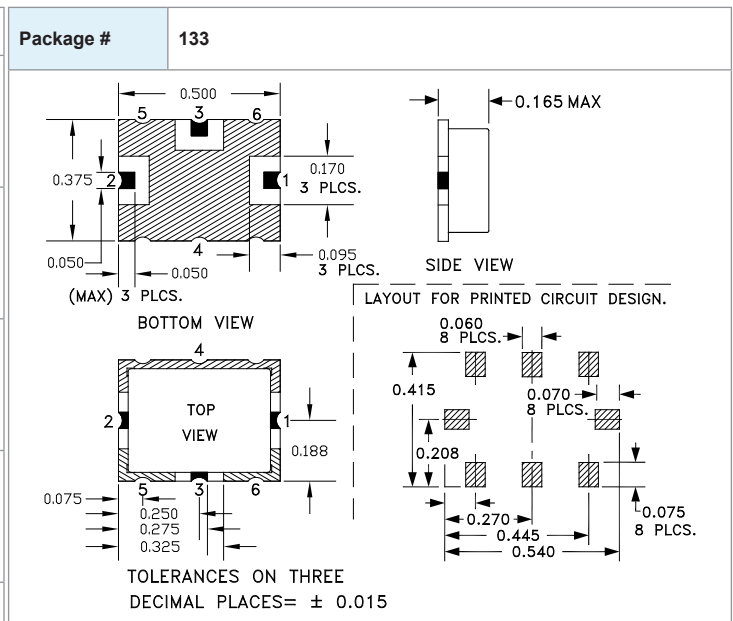
- ▶ Wide Bandwidth
- ▶ Closely Controlled Phase/Amplitude Unbalance
- ▶ Small Size, Surface Mount
- ▶ RoHS Compliant



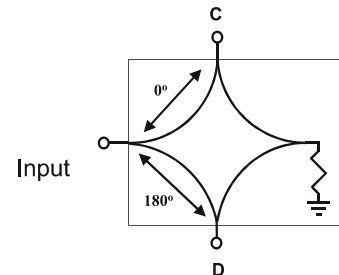
**SPECIFICATIONS ( Rev. A 10/18/24 )**

<b>Frequency</b>	1 - 600 MHz		
<b>Insertion Loss (dB) *</b>	Freq. (MHz)	Typ.	Max.
	1-10	1.1	1.5
	10-300	1.0	1.3
<b>Amplitude Unbalance (dB)</b>	Freq. (MHz)	Typ.	Max.
	1-10	0.05	0.15
	10-300	0.07	0.20
<b>Phase Unbalance</b>	Freq. (MHz)	Typ.	Max.
	1-10	4.0°	6.0°
	10-300	1.2°	3.0°
<b>Isolation (dB)</b>	Freq. (MHz)	Typ.	Max.
	1-10	25	22
	10-300	24	20
<b>Input Power Rating</b>	Freq. (MHz)	Typ.	Max.
	1-10	25	22
	10-300	24	20
<b>Impedance</b>	50 Ohms (Nom.)		
<b>VSWR</b>	1.3:1 (Typ.)		
<b>Operating Temperature Range</b>	-40 to +85 °C		

\* Insertion loss in excess of the theoretical 3 dB coupling.



Port Configuration			
Input	Output (C)	180° Output (D)	GND
3	1	2	All Other

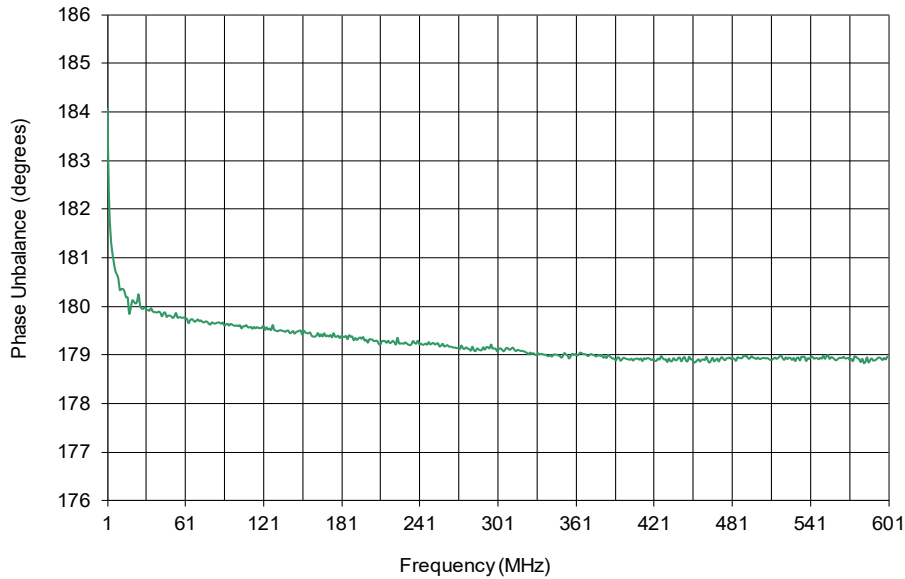
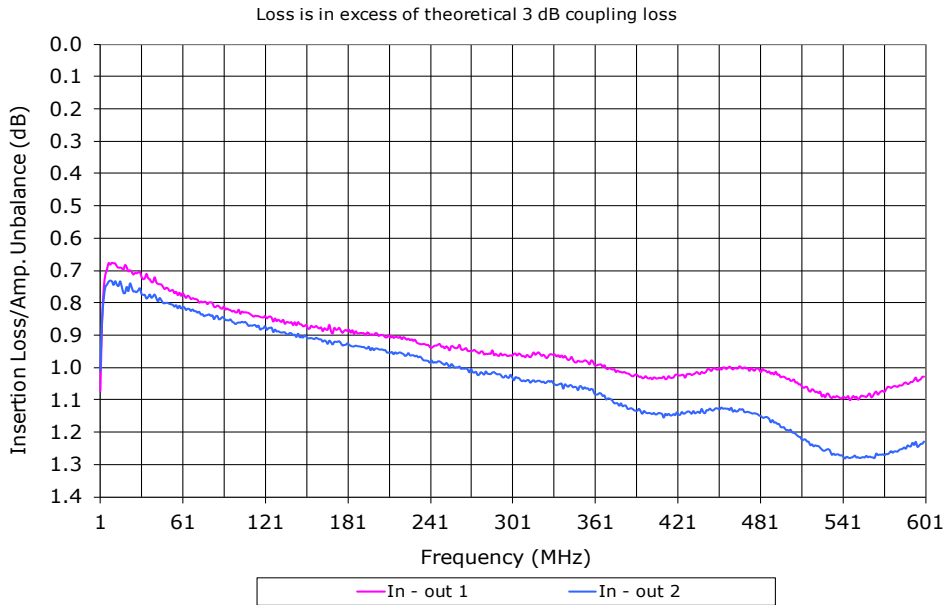


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Data @ 25°C



PERFORMANCE PLOTS

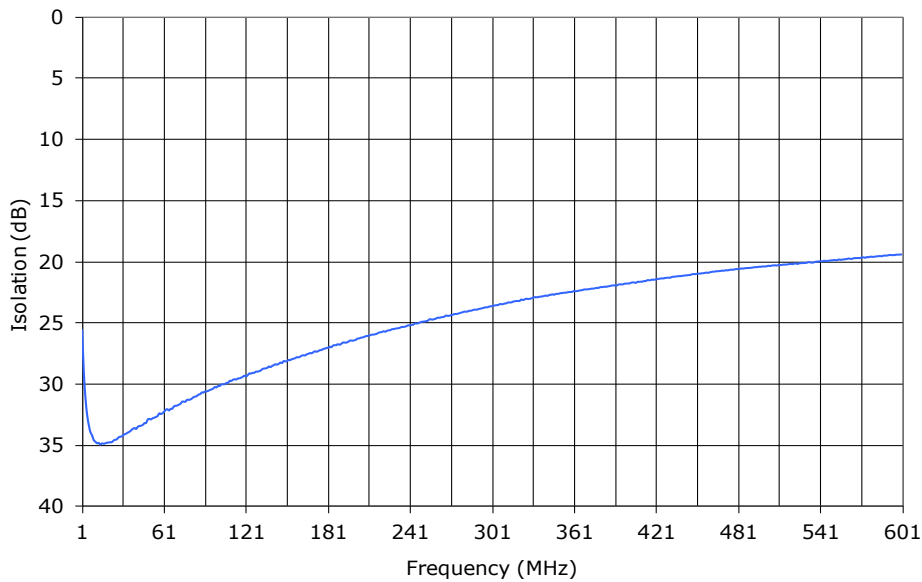
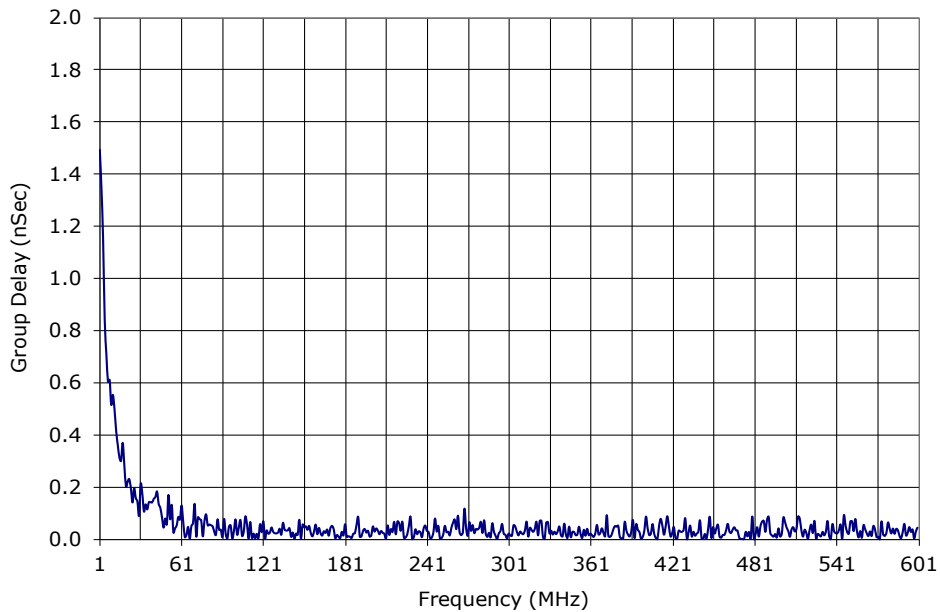
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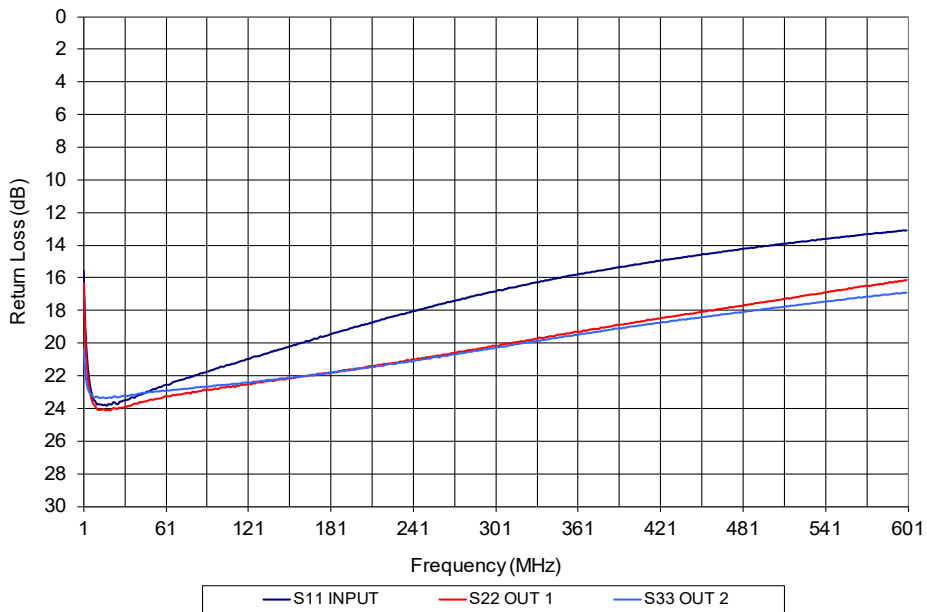
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