

# 90° HYBRID

## SURFACE MOUNT MODEL: SMQ-C52

**OPTIMIZED BANDWIDTH**

**20.3 - 22.5 MHz**

**FEATURES:**

- ▶ Excellent Performance
- ▶ Small Size, Surface Mount
- ▶ Building Block For:
  - Power Amplifiers
  - Image Rejection Mixers
  - I & Q / SSB Modulators
  - Phase Shifters & More...



**SPECIFICATIONS (Rev. A 03/26/08)**

Frequency	20.3 - 22.5 MHz	
Insertion Loss (dB) *	Typ.	Max.
	0.2	0.3
Amplitude Unbalance	Typ.	Max.
	0.5	0.8
Phase Unbalance (Deg.)	Typ.	Max.
	1.0°	3.0°
Isolation (dB)	Typ.	Min.
	28	20
Input Power	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.1:1 (Typ.)	
Operating Temperature Range	-40 to +85 °C	
Storage Temperature Range	-55 to +100 °C	

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

<b>Package #</b>	<b>129</b>
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Port Configuration					
Input	Isolated*	+90° Output	0° Output	GND.	No Connection
1	4	6	3	7,8,9,10	2,5

\* Terminate ISOLATED port in 50 Ohms EXTERNALLY.

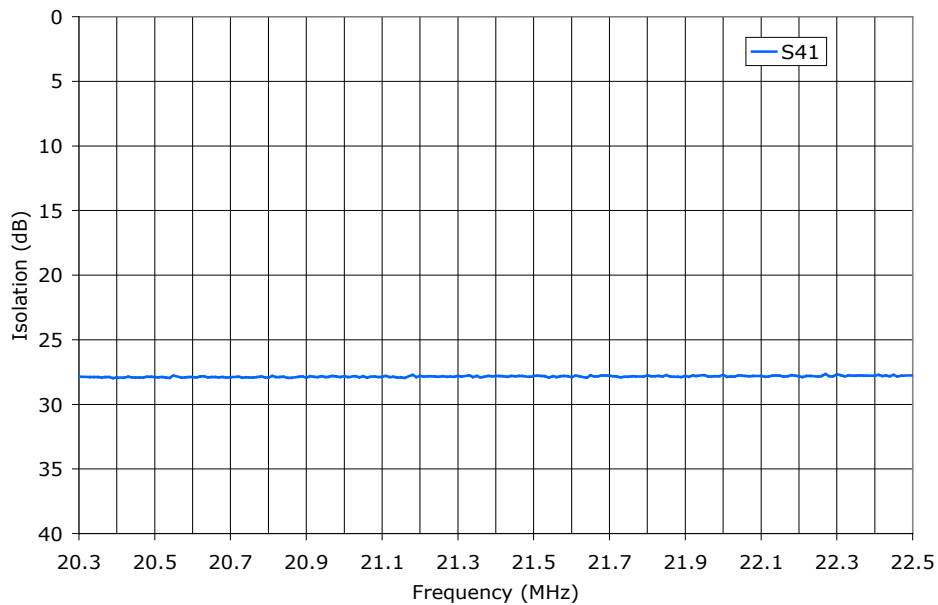
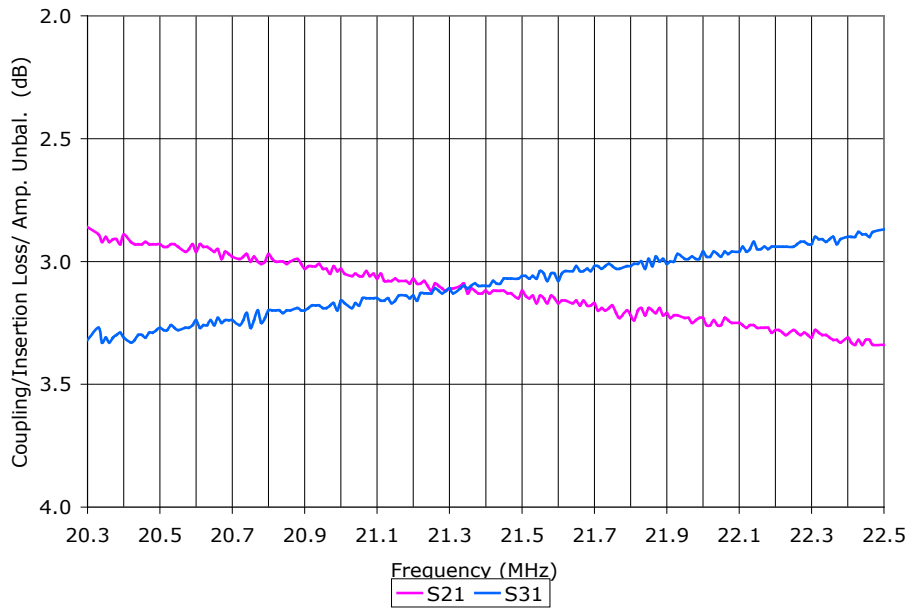
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Data @ 25°C



PERFORMANCE PLOTS

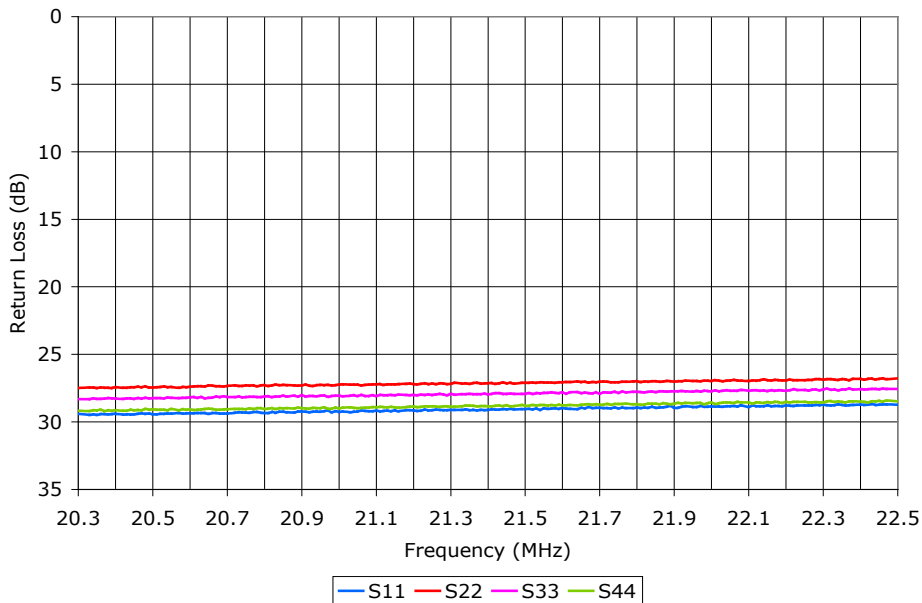
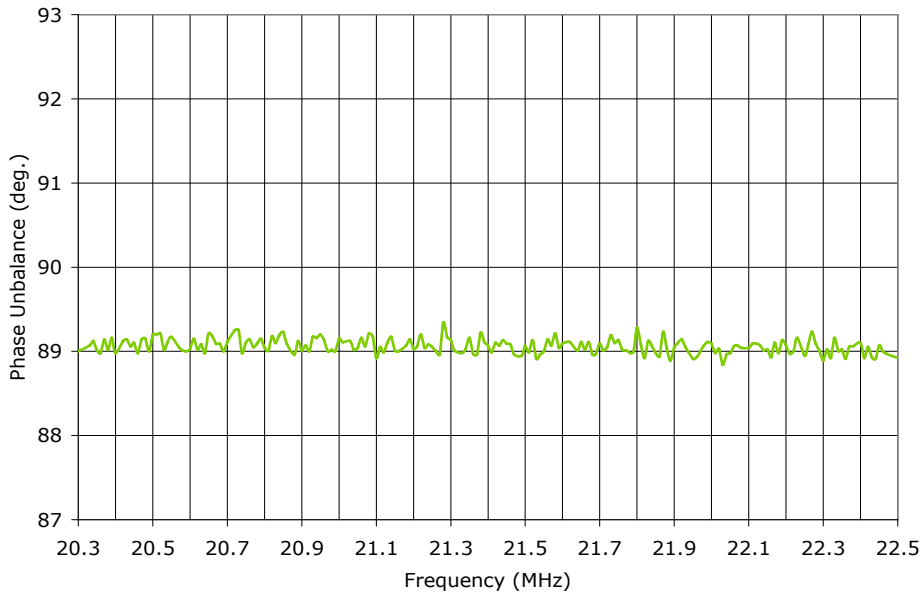
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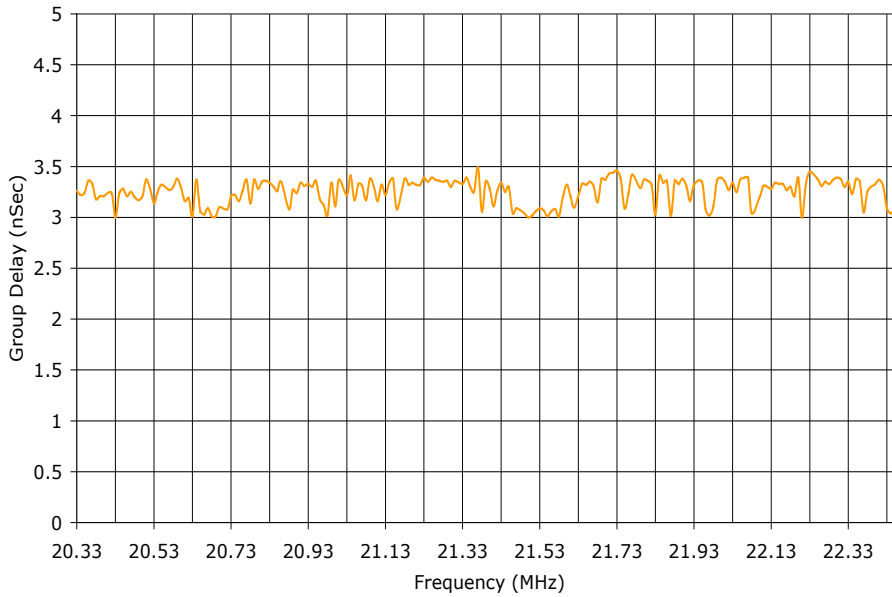
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