

# 90° HYBRID

## SURFACE MOUNT MODEL: SMQ-C20

**OPTIMIZED BANDWIDTH**

**52 - 88 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. C 02/05/08)**

Frequency	52 - 88 MHz	
Insertion Loss (dB) *	Typ.	Max.
	0.3	0.6
Amplitude Unbalance	Typ.	Max.
	0.2	0.6
Phase Unbalance (Deg.)	Typ.	Max.
	1.0°	2.5°
Isolation (dB)	Typ.	Min.
	23	18
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.1:1 (Typ.)	
Operating Temperature Range	-40 to +85 °C	
* Insertion loss in excess of the theoretical 3 dB coupling.		

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

\* Terminate ISOLATED port in 50 Ohms EXTERNALLY.

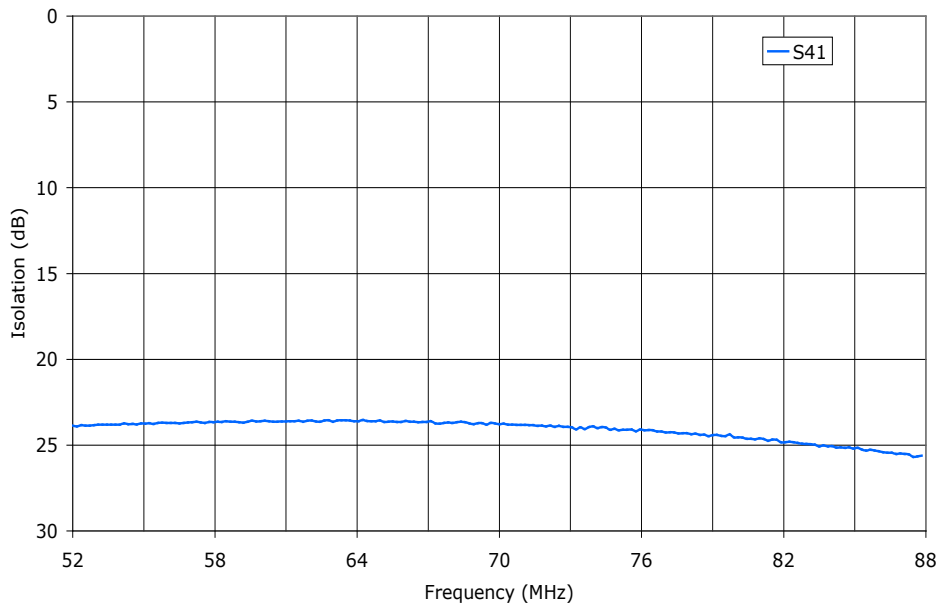
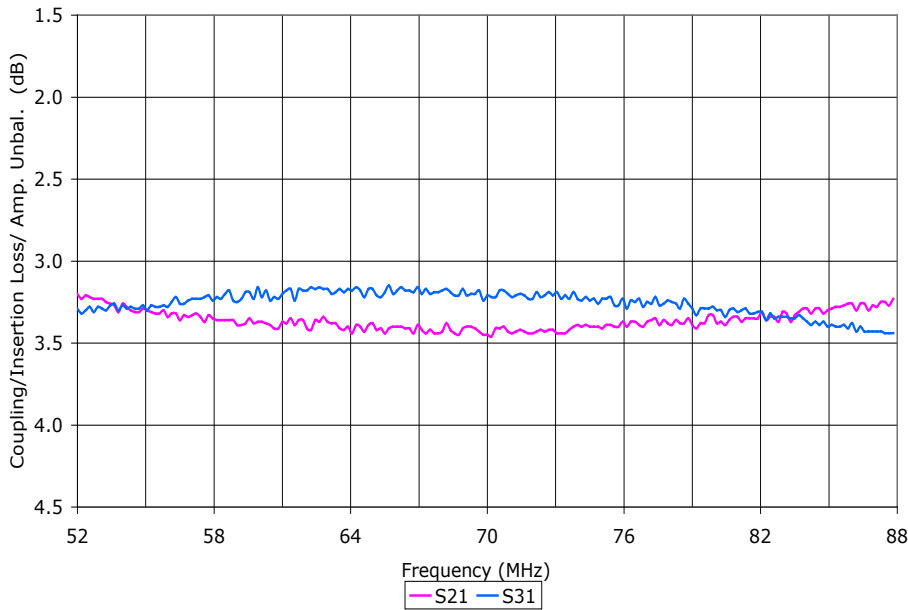
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Data @ 25°C



PERFORMANCE PLOTS

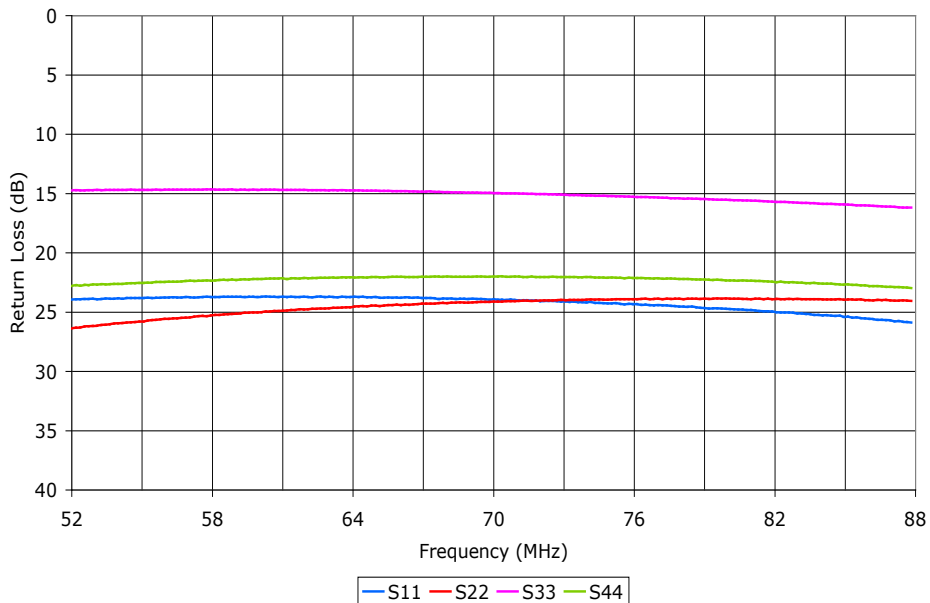
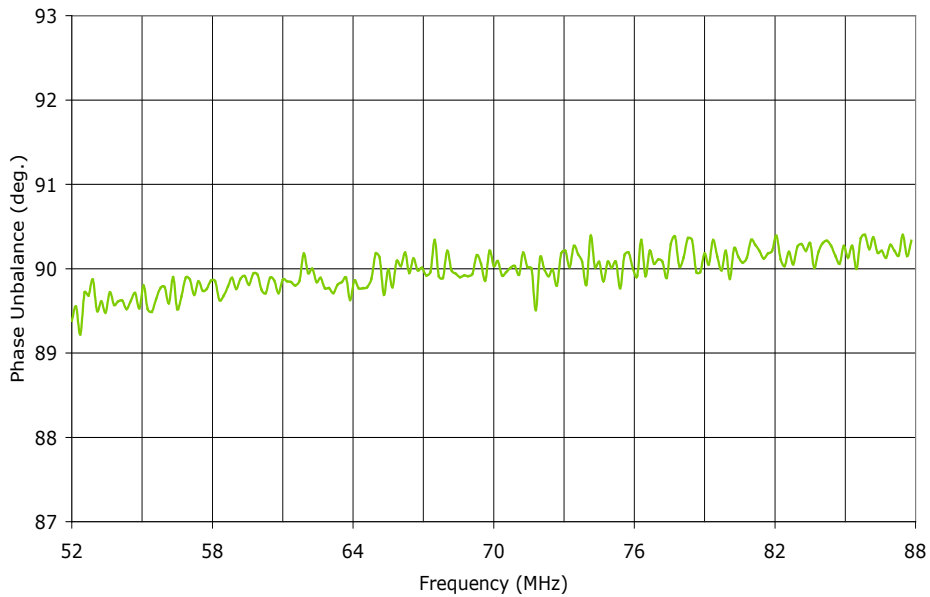
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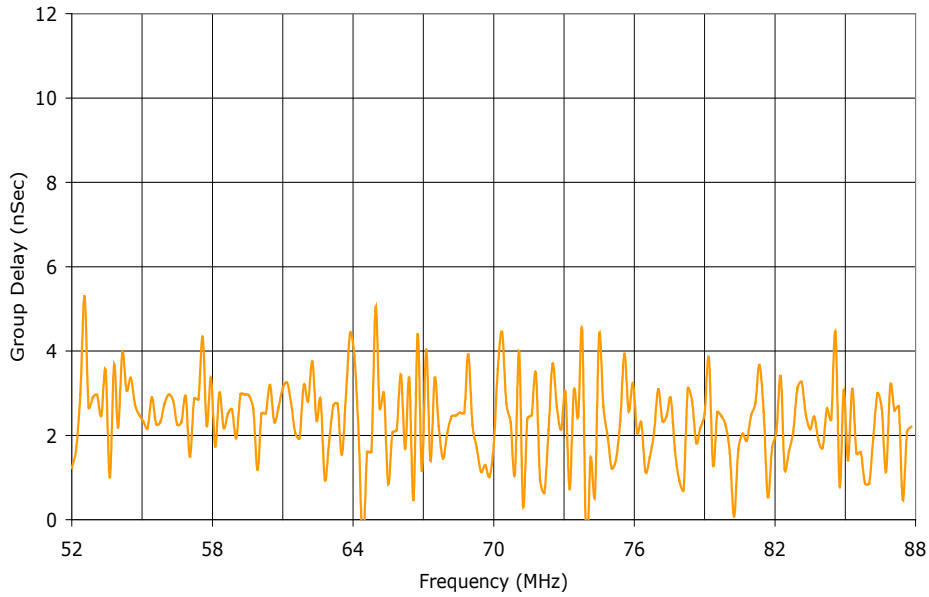
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