

90° HYBRID

SURFACE MOUNT MODEL: SMQ-C09

3:1 BANDWIDTH

14 - 42 MHz

FEATURES:

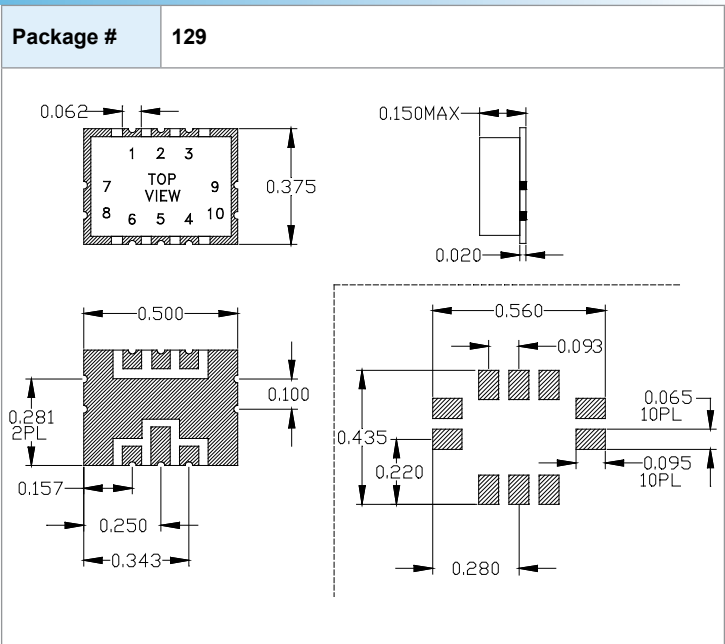
- ▶ Excellent Performance
- ▶ Small Package Size, Surface Mount
- ▶ Building Block For:
 - Power Amplifiers
 - Image Rejection Mixers
 - I & Q / SSB Modulators
 - Phase Shifters & More...



SPECIFICATIONS (Rev. B 10/04/07)

Frequency	14 - 42 MHz	
Insertion Loss (dB) *	Typ	Max
	0.4	0.9
Amplitude Unbalance (dB)	Typ	Max
	0.6	0.9
Phase Unbalance (Deg.)	Typ	Max
	1.0	3.0
Isolation (dB)	Typ	Min
	17	14
Power Rating	1 Watt (Max)	
Impedance	50 Ohms (Nom)	
VSWR	1.15:1 (Typ)	
Operating Temperature Range	-40 to +85 °C	
Storage Temperature Range	-55 to +100 °C	

* Signal loss in excess of the theoretical 3 dB coupling.



Port Configuration					
Input	Isolated*	+90° Output	0° Output	GND.**	No. Conn.
5	6	1	2	7,8,9,10	3,4

* Terminate ISOLATED port in 50 Ohms EXTERNALLY.
 ** Ground Externally

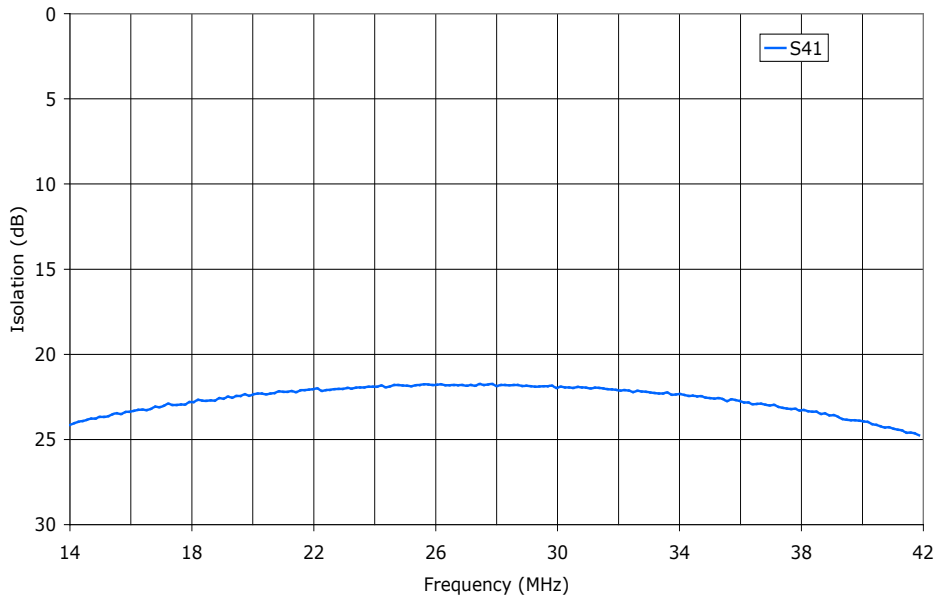
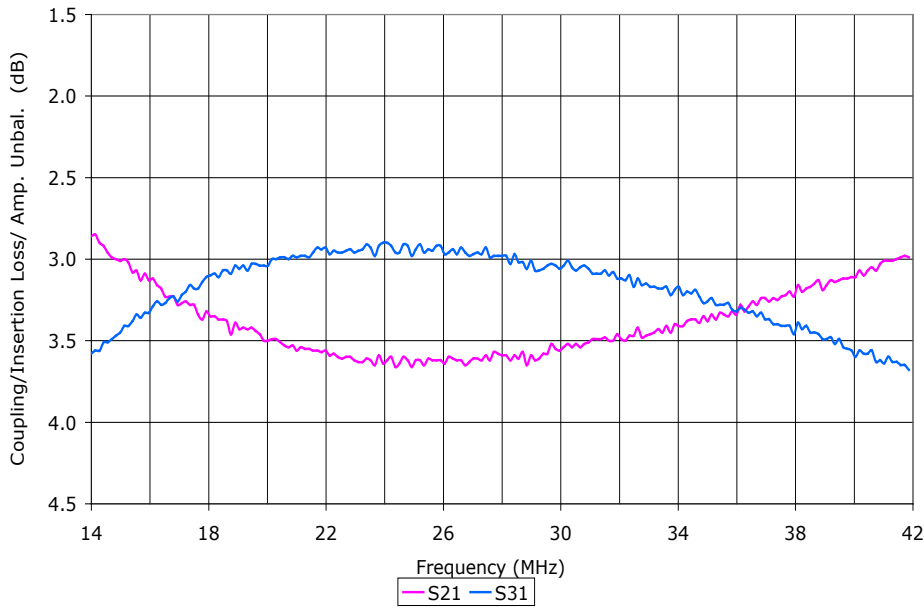
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Data @ 25°C



PERFORMANCE PLOTS

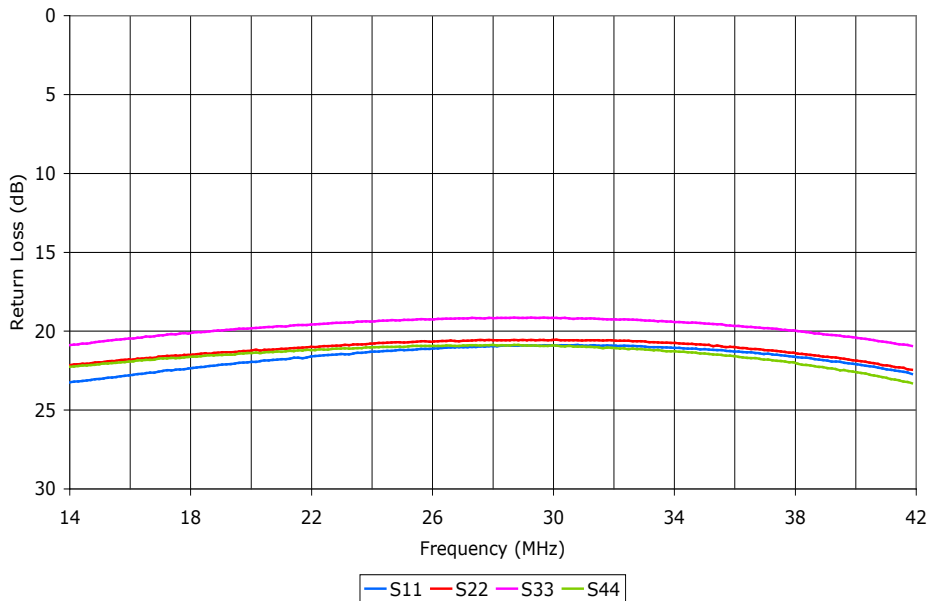
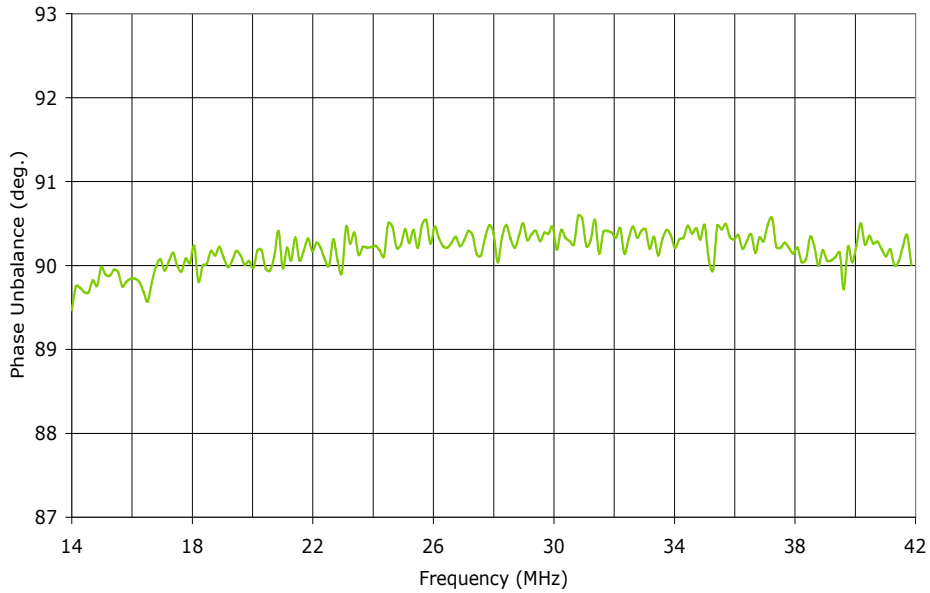
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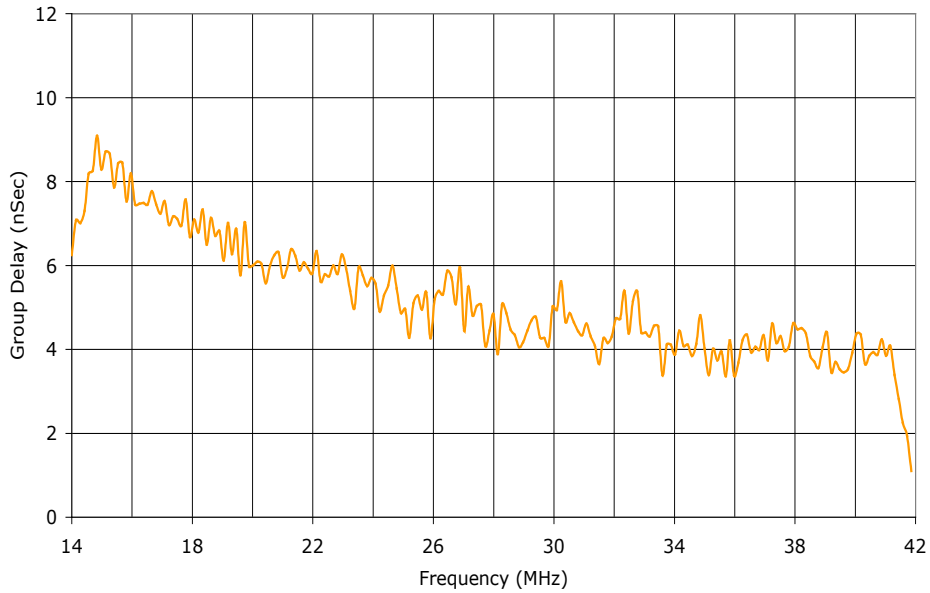
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