

90° HYBRID

SURFACE MOUNT MODEL: SMQ-C21

OCTAVE BANDWIDTH

104 - 176 MHz

FEATURES:

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

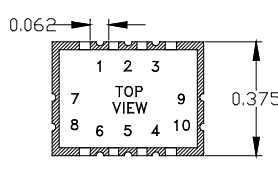
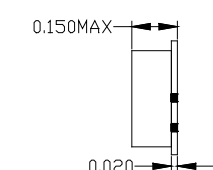


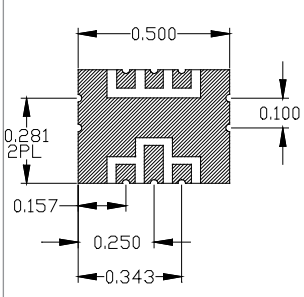
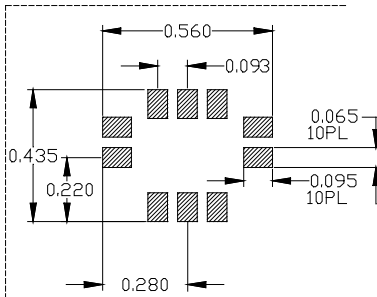
SPECIFICATIONS (Rev. A 02/25/08)

Frequency	104 - 176 MHz	
Insertion Loss (dB) *	Typ.	Max.
	0.3	0.7
Amplitude Unbalance	Typ.	Max.
	0.2	0.6
Phase Unbalance	Typ.	Max.
	1°	2.5°
Isolation (dB)	Typ.	Min.
	30	20
Power Rating	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.

Package #	129
------------------	------------

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

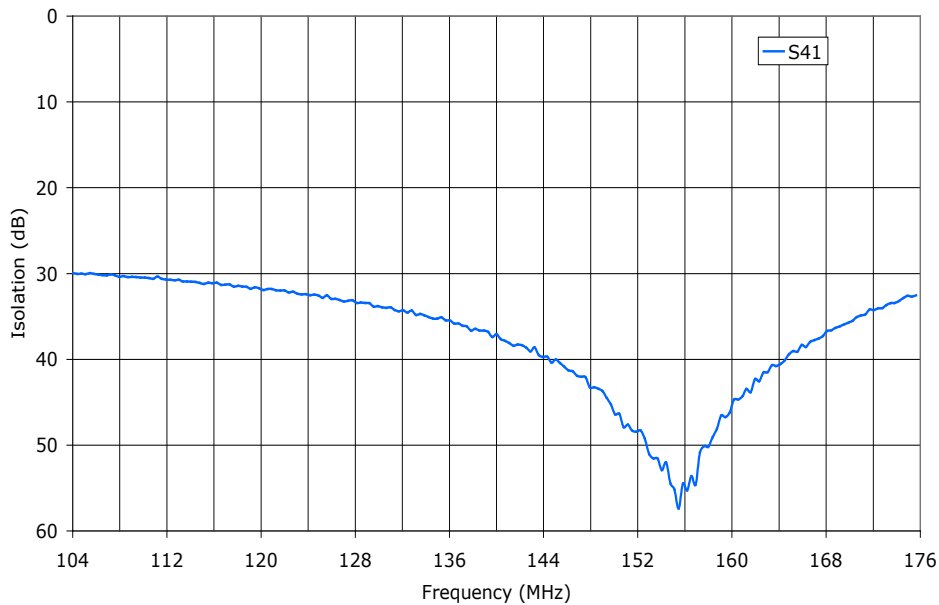
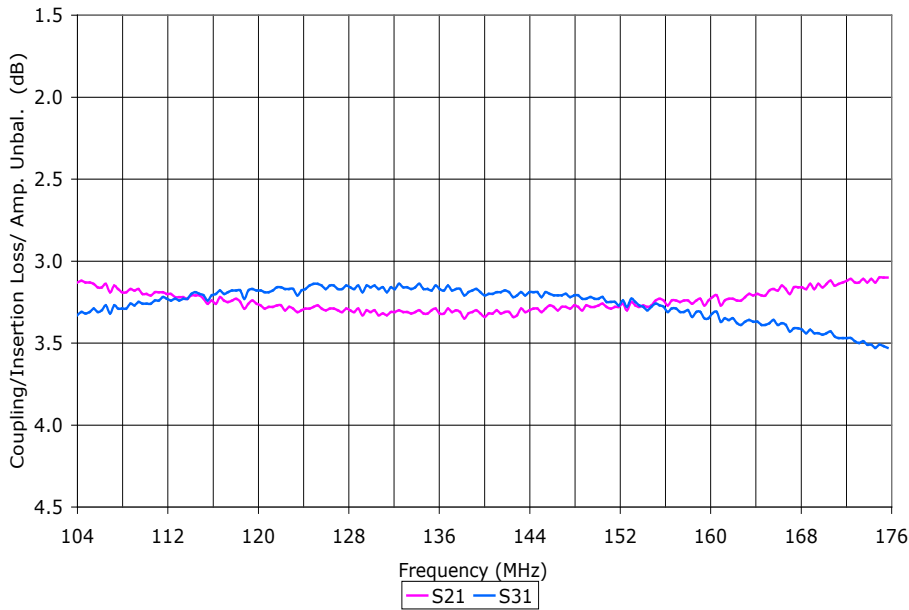
90° HYBRID

SURFACE MOUNT MODEL: SMQ-C21

OCTAVE BANDWIDTH

104 - 176 MHz

Data @ 25°C



PERFORMANCE PLOTS

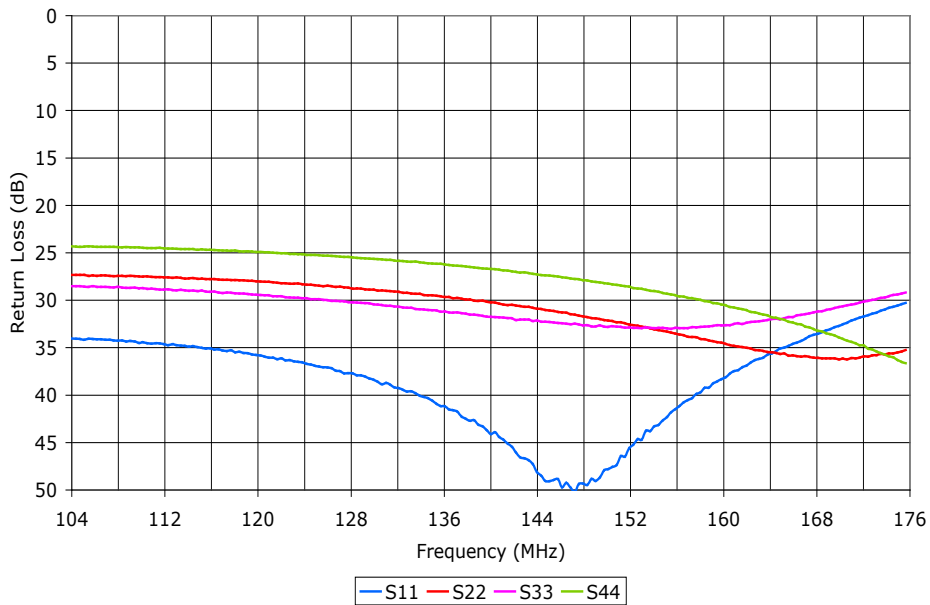
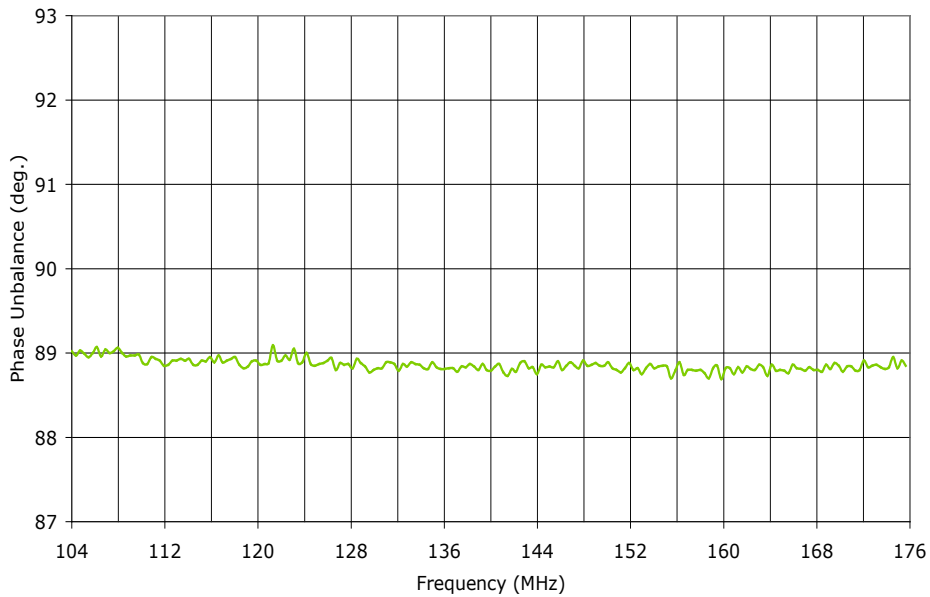
90° HYBRID

SURFACE MOUNT MODEL: SMQ-C21

OCTAVE BANDWIDTH

104 - 176 MHz

Data @ 25°C



PERFORMANCE PLOTS



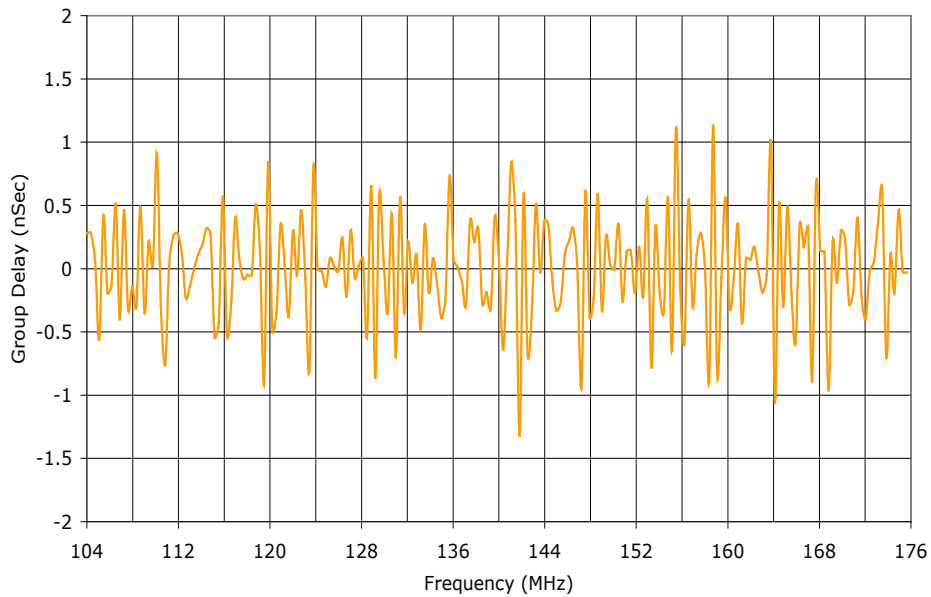
90° HYBRID

SURFACE MOUNT MODEL: SMQ-C21

OCTAVE BANDWIDTH

104 - 176 MHz

Data @ 25°C



PERFORMANCE PLOTS