

90° HYBRID

SURFACE MOUNT MODEL: SQ-67

10% BANDWIDTH

Fc = 450 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. B 10/22/13)

Frequency	450 MHz ±5%	
Insertion Loss (dB) *	Typ. 0.3	Max. 0.4
Amplitude Unbalance	Typ. 0.5	Max. 0.8
Phase Unbalance (Deg.)	Typ. 2.0	Max. 3
Isolation (dB)	Typ. 20	Min. 17
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.35:1 (Typ.)	
Operating Temperature Range	-40 to +85 °C	
Storage Temperature Range	-55 to +100 °C	
* Insertion loss is the average loss of the 2 coupling values in excess of the theoretical 3 dB coupling.		

Package #	134			
------------------	------------	--	--	--

Port Configuration				
Input	Isolated*	+90° Output	0° Output	GND.**
6	5	1	2	3,4

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

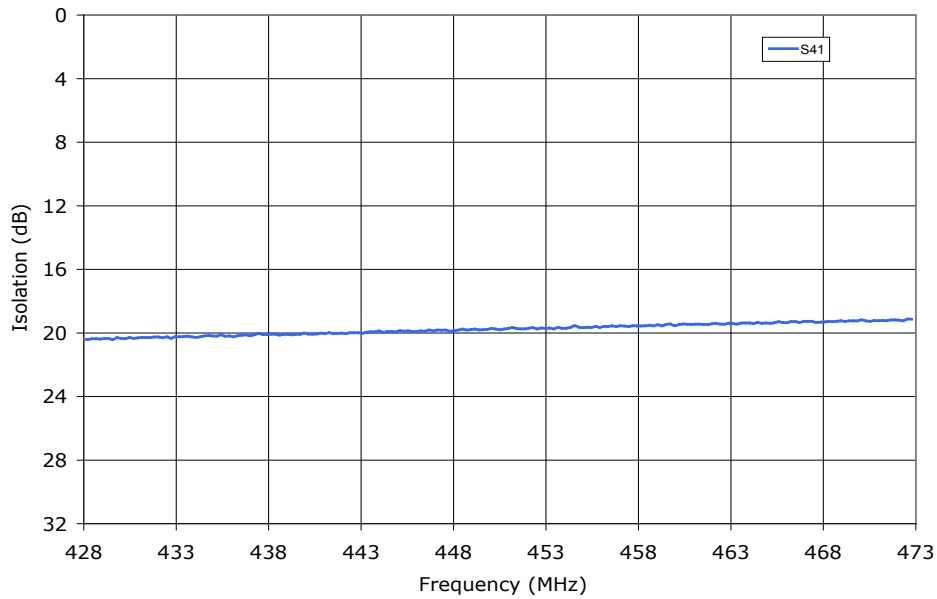
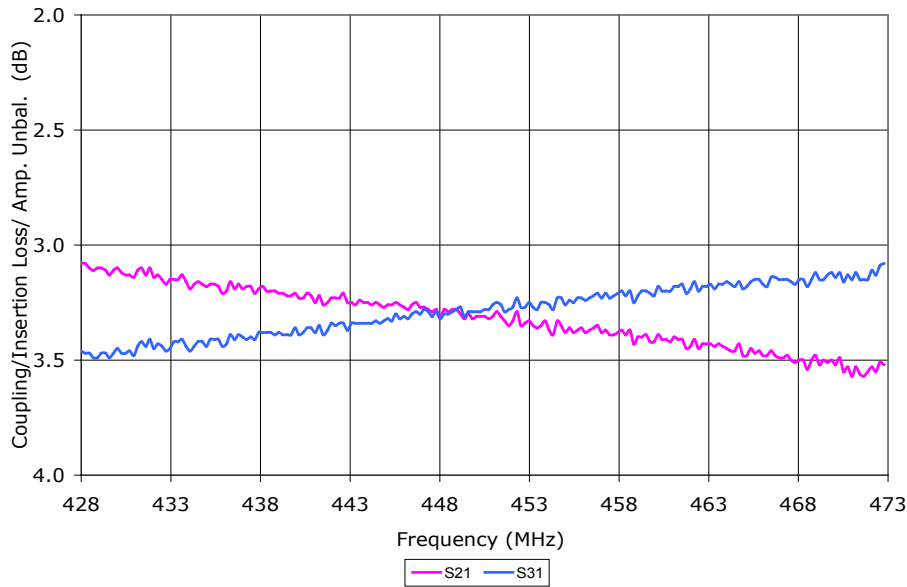
90° HYBRID

SURFACE MOUNT MODEL: SQ-67

10% BANDWIDTH

F_c = 450 MHz

Data @ 25°C



PERFORMANCE PLOTS

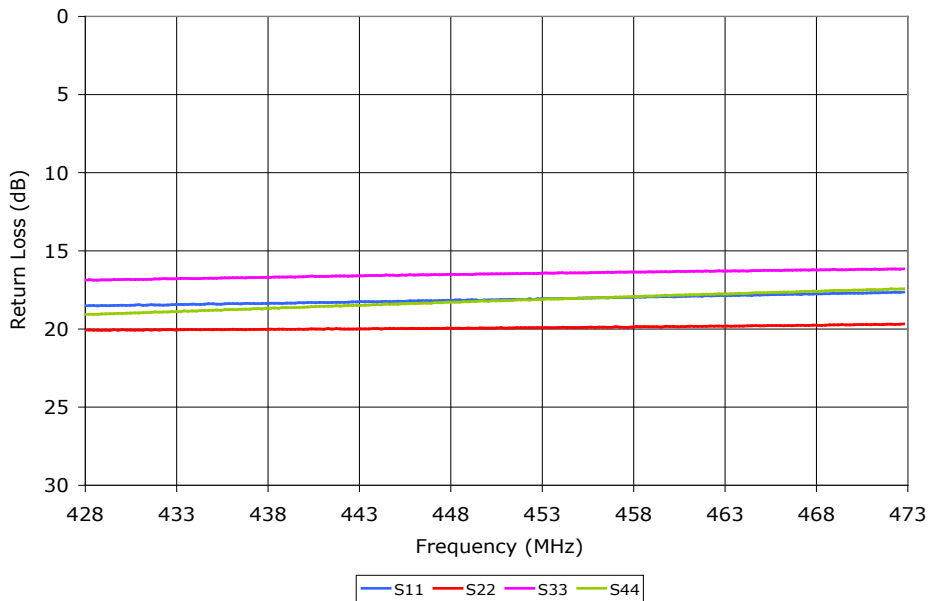
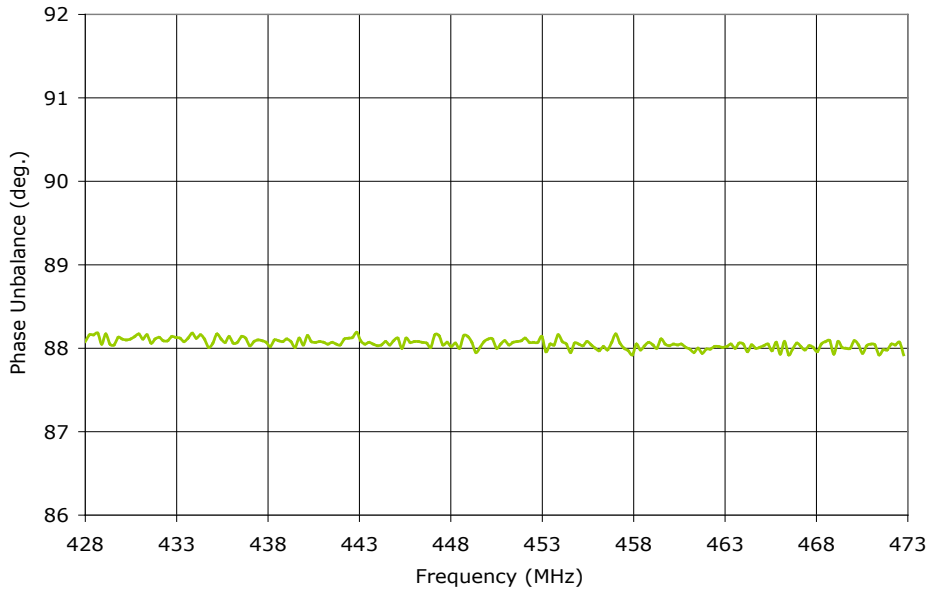
90° HYBRID

SURFACE MOUNT MODEL: SQ-67

10% BANDWIDTH

F_c = 450 MHz

Data @ 25°C



PERFORMANCE PLOTS

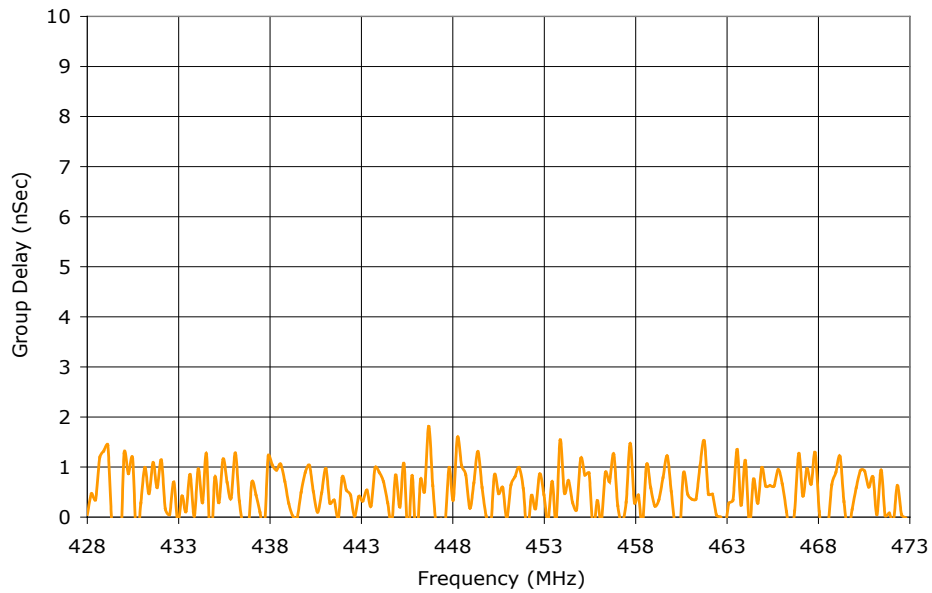
90° HYBRID

SURFACE MOUNT MODEL: SQ-67

10% BANDWIDTH

F_c = 450 MHz

Data @ 25°C



PERFORMANCE PLOTS