

90° HYBRID

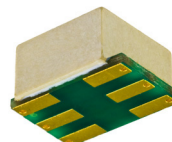
SURFACE MOUNT MODEL: SLQ-301

3:1 BANDWIDTH

5.5 - 16.5 MHz

FEATURES:

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



SPECIFICATIONS

Frequency	5.5 - 16.5 MHz	
Insertion Loss (dB) *	Typ. 0.3	Max. 0.5
Amplitude Unbalance	Typ. 0.9	Max. 1.2
Phase Unbalance	Typ. 1°	Max. 3°
Isolation (dB)	Typ. 23	Min. 20
Input Power	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.10:1 (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 #

159LF

REL-PRO® PATENT NO. 7,612,296

The diagram shows the mechanical specifications of the 159LF package. It includes a top view with dimensions 0.310 and 0.270, a side view with dimensions 0.310 and 0.200 (MAX), and a bottom view with dimensions 0.100, 0.050, 0.140, 0.060, and 0.100. A layout for printed circuit design is also shown with dimensions 0.260, 0.152, 0.420, 0.060, and 0.100. The package is labeled with 1, 2, 3, 4, 5, and 6.

TOLERANCES ON THREE
DECIMAL PLACES= ± 0.015
PACKAGE MONTING: SEE APPLICATION NOTES AN7200 & AN7301

Port Configuration

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

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

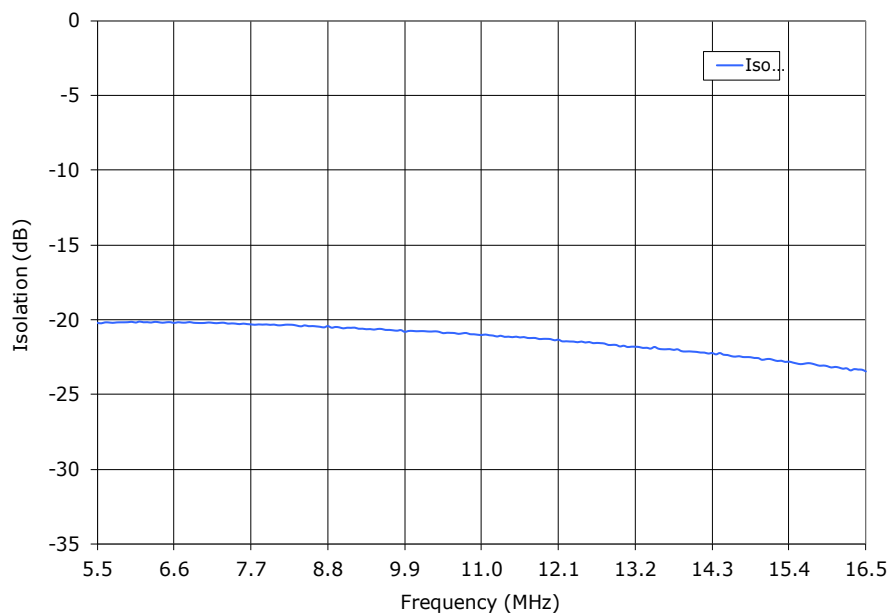
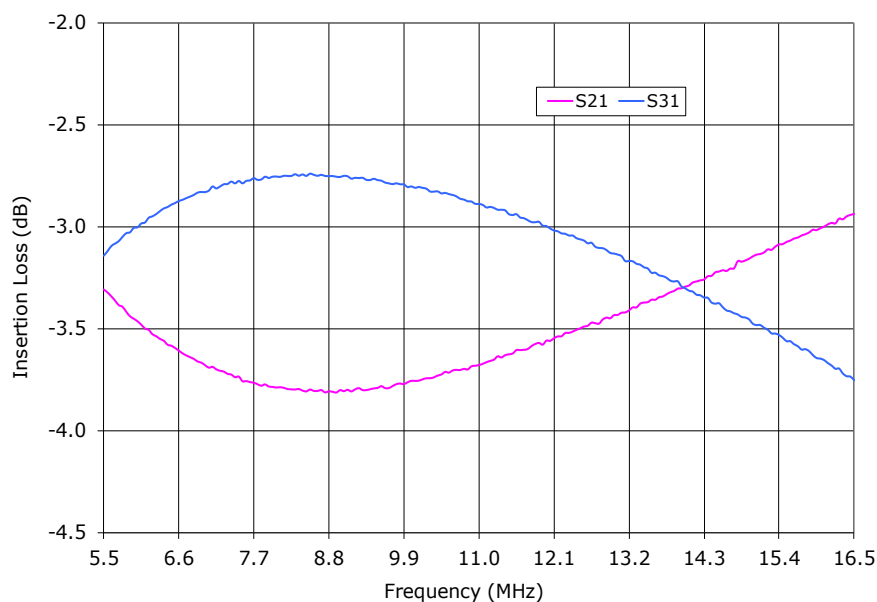
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Data @ 25°C



PERFORMANCE PLOTS

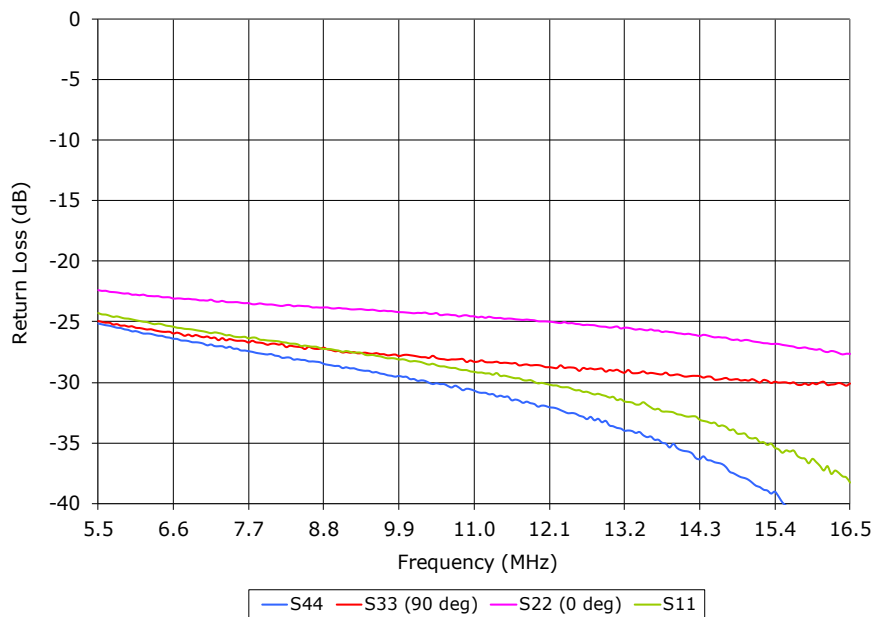
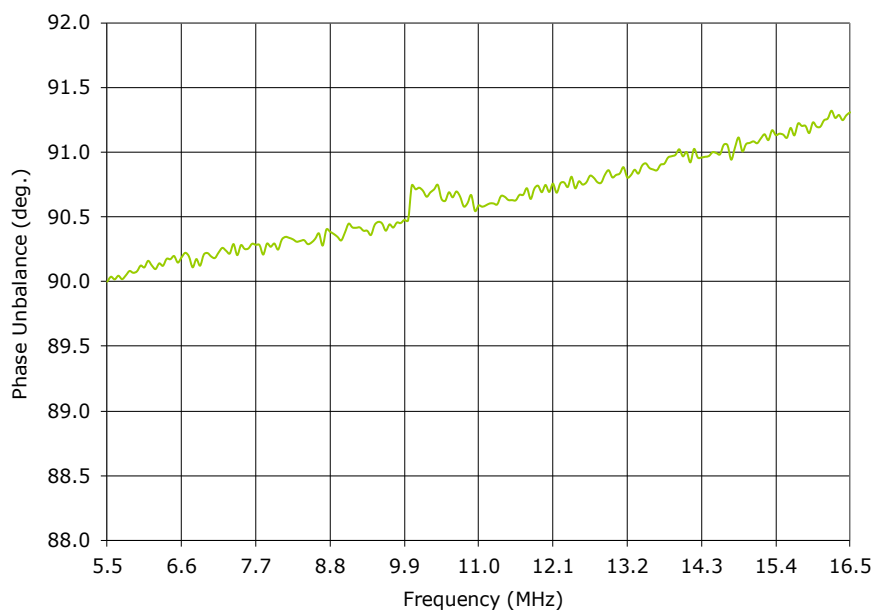
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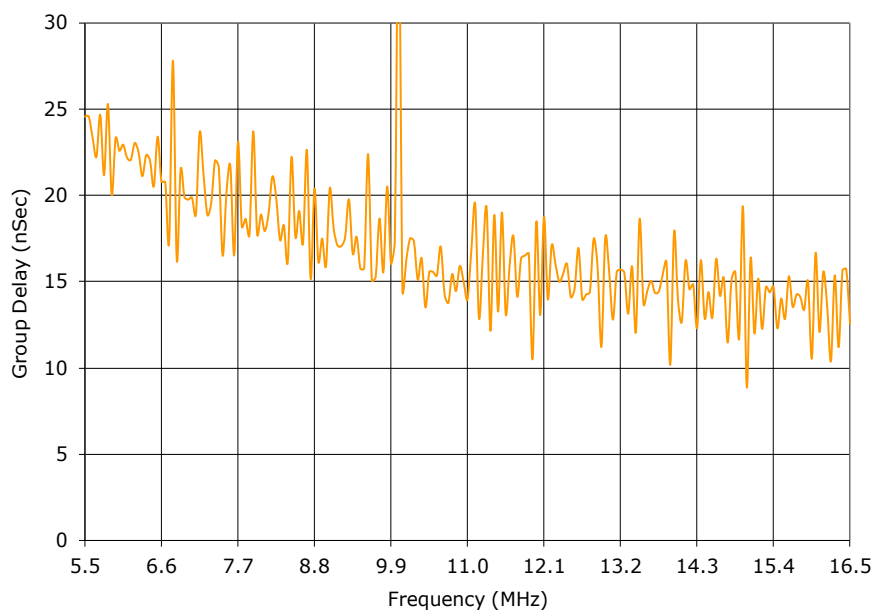
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