

# 90° HYBRID

## SURFACE MOUNT MODEL: SLQ-K10

**OPTIMIZED BANDWIDTH**

**500 - 1000 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. D 11/20/09)**

Frequency	500 - 1000 MHz	
Insertion Loss (dB) *	Typ.	Max.
	0.8	1.2
Amplitude Unbalance	Typ.	Max.
	1.3	1.6
Phase Unbalance (Deg.)	Typ.	Max.
	6	10
Isolation (dB)	Typ.	Min.
	15	10
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.8:1 (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

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015  
 PACKAGE MOUNTING: 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

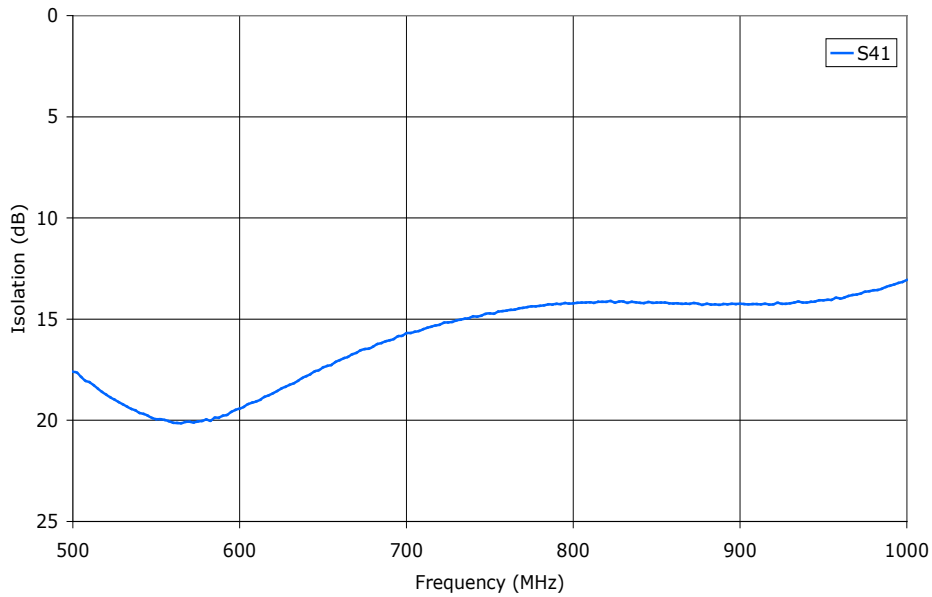
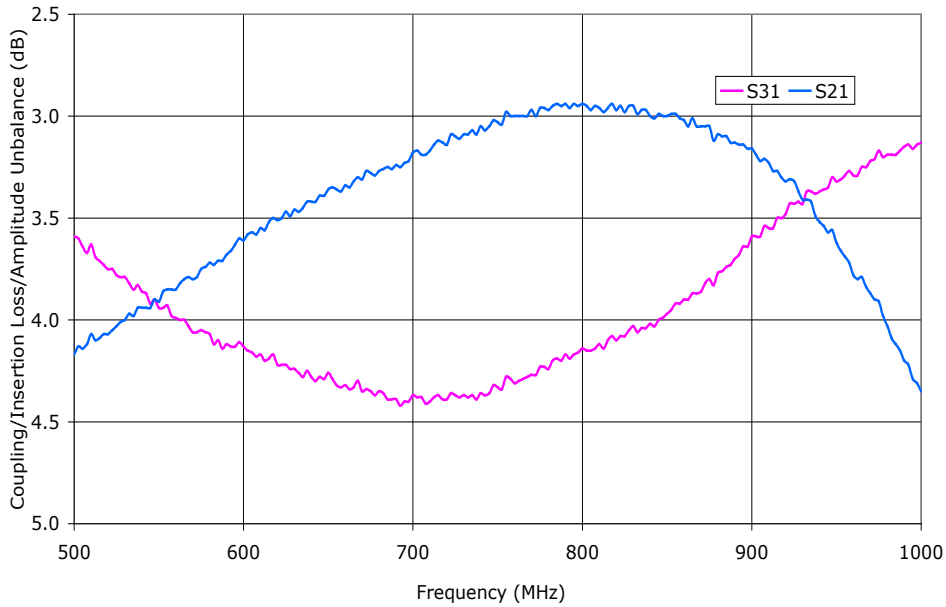
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Data @ 25°C



PERFORMANCE PLOTS

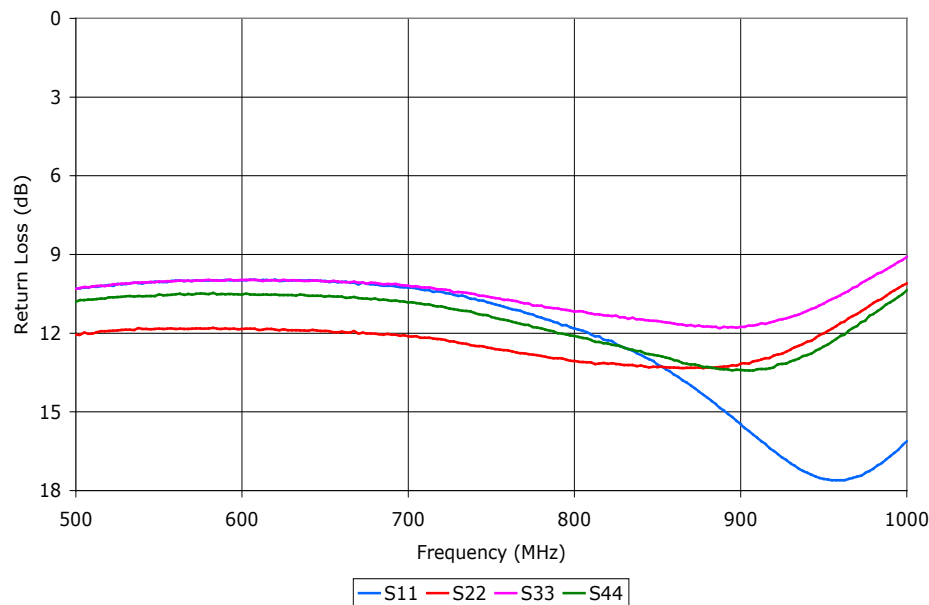
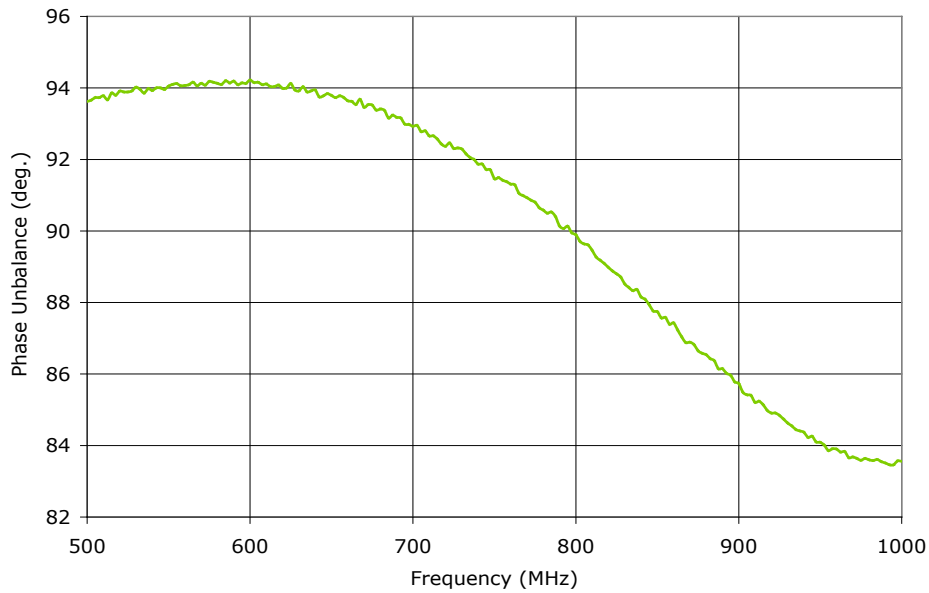
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PERFORMANCE PLOTS



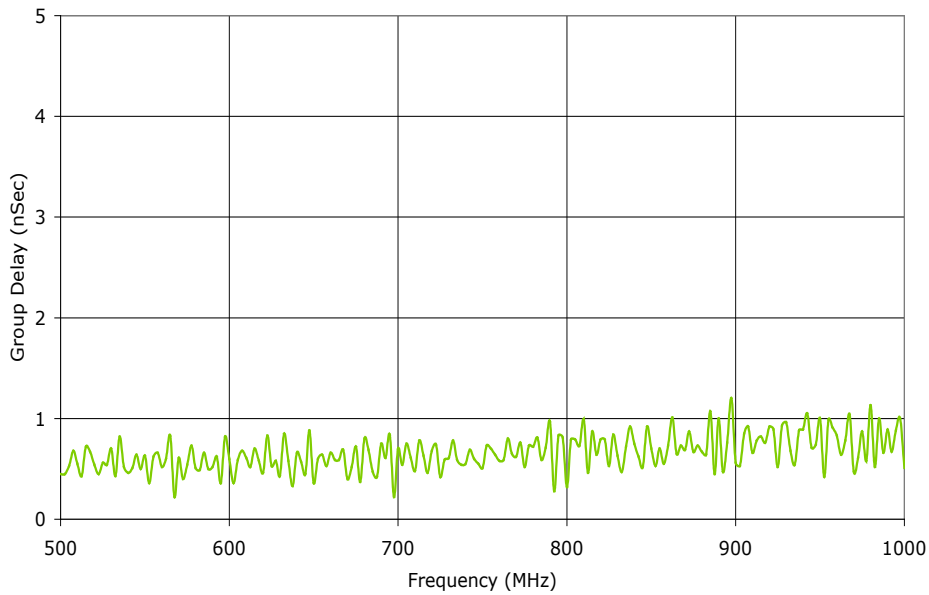
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PERFORMANCE PLOTS



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