

# 90° HYBRID

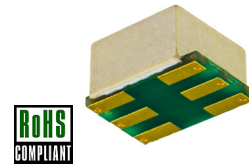
## SURFACE MOUNT MODEL: SLQ-KA4

**OPTIMIZED BANDWIDTH**

**80 - 160 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 09/18/18)**

Frequency	80 - 160 MHz	
Insertion Loss (dB) *	Typ.	Max.
	0.45	0.65
Amplitude Unbalance (dB)	Typ.	Max.
	0.4	1.0
Phase Unbalance (Deg.)	Typ.	Max.
	2.0°	3.0°
Isolation (dB)	Typ.	Min.
	27	18
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.3:1 (Typ.)	
Operating Temperature Range	-40 to +85 °C	

\* Insertion loss is the average loss of the 2 coupling values in excess of the theoretical 3 dB coupling.

**Package # 159LF**

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

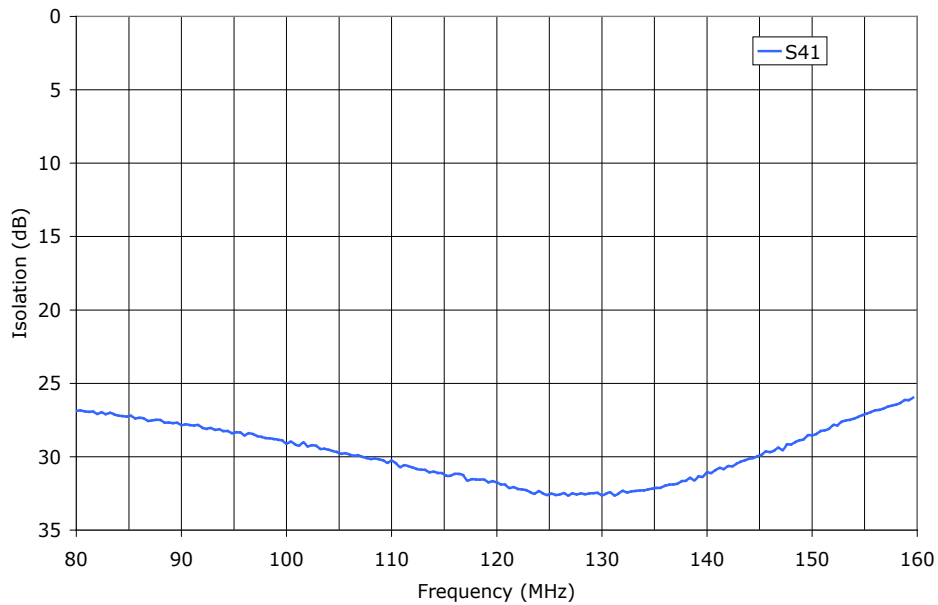
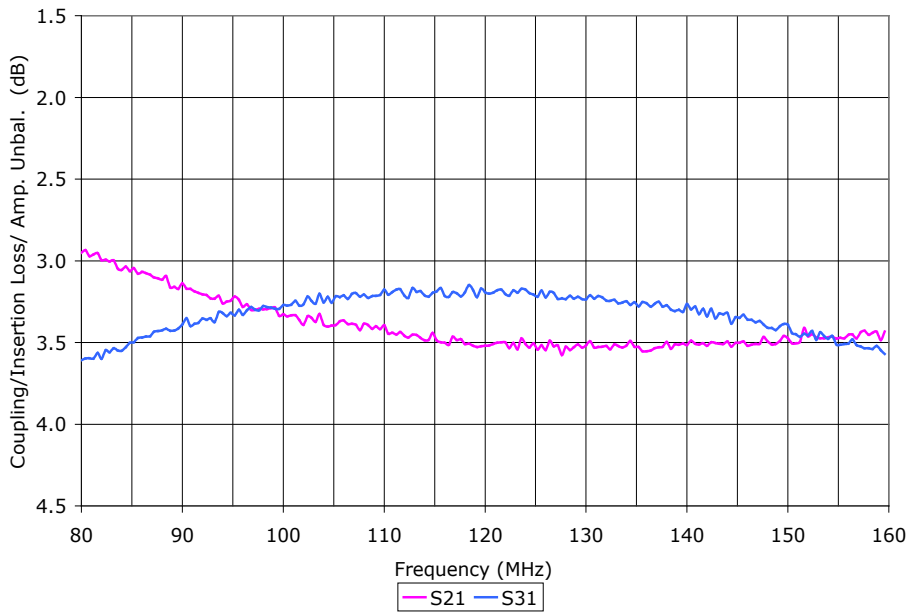
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Data @ 25°C



PERFORMANCE PLOTS

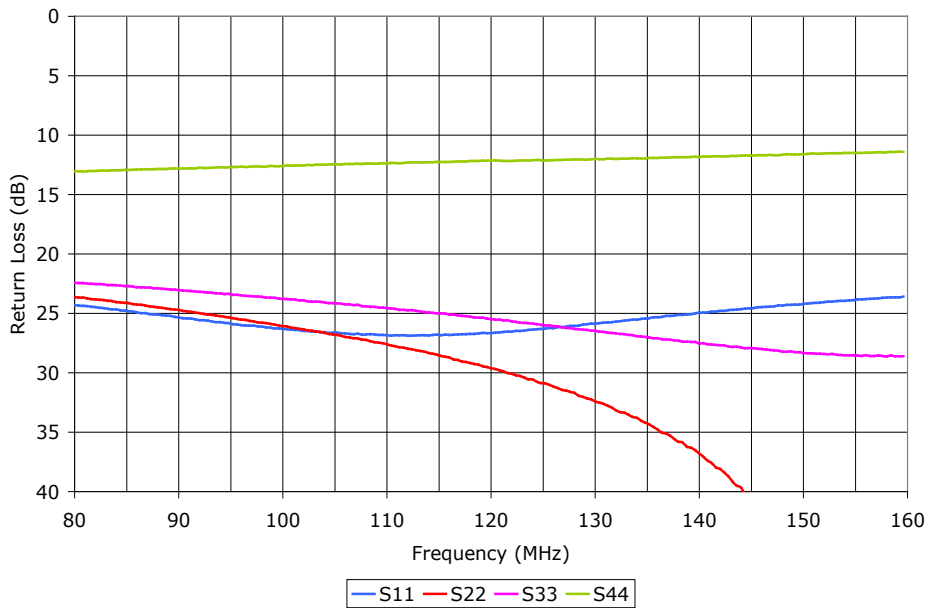
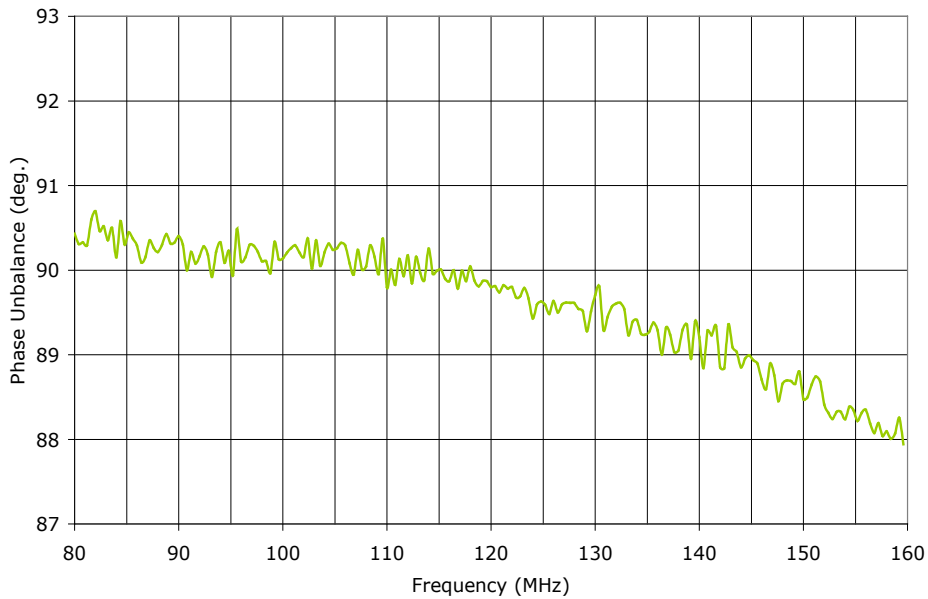
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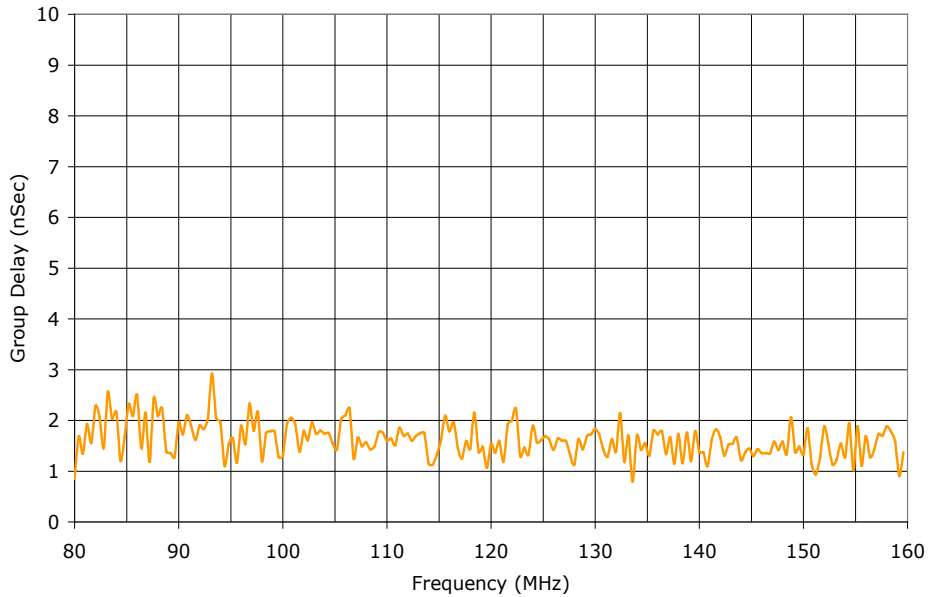
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PERFORMANCE PLOTS



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