

90° HYBRID

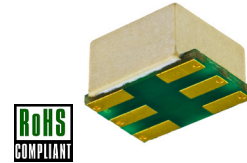
SURFACE MOUNT MODEL: SLQ-K20

OPTIMIZED BANDWIDTH

50 - 100 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	50 - 100 MHz	
Insertion Loss (dB) *	Typ.	Max.
	0.2	0.5
Amplitude Unbalance	Typ.	Max.
	0.5	1.0
Phase Unbalance (Deg.)	Typ.	Max.
	1.0°	3.0°
Isolation (dB)	Typ.	Min.
	25	20
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.1:1 (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			
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TOP VIEW

SIDE VIEW

BOTTOM VIEW

LAYOUT FOR PRINTED CIRCUIT DESIGN

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

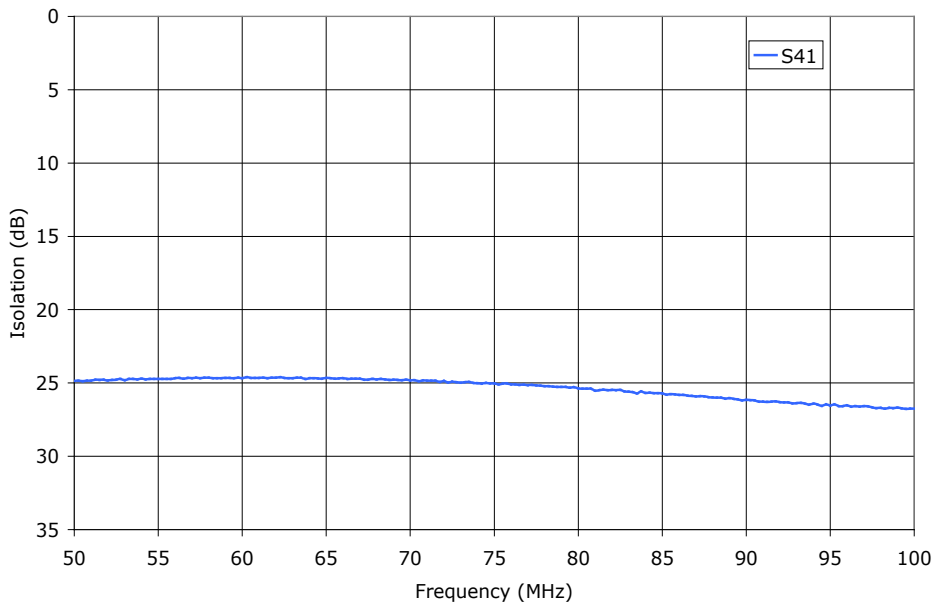
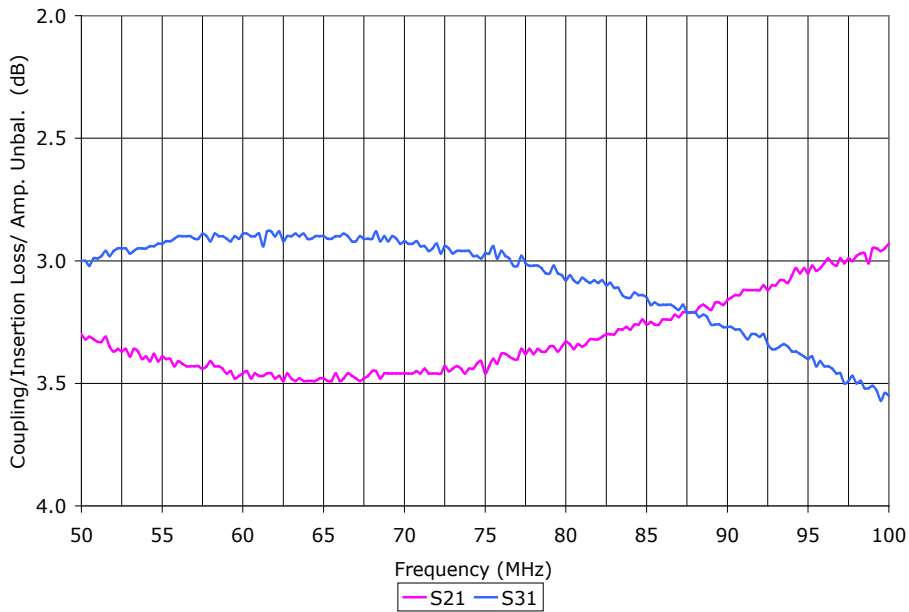
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Data @ 25°C



PERFORMANCE PLOTS



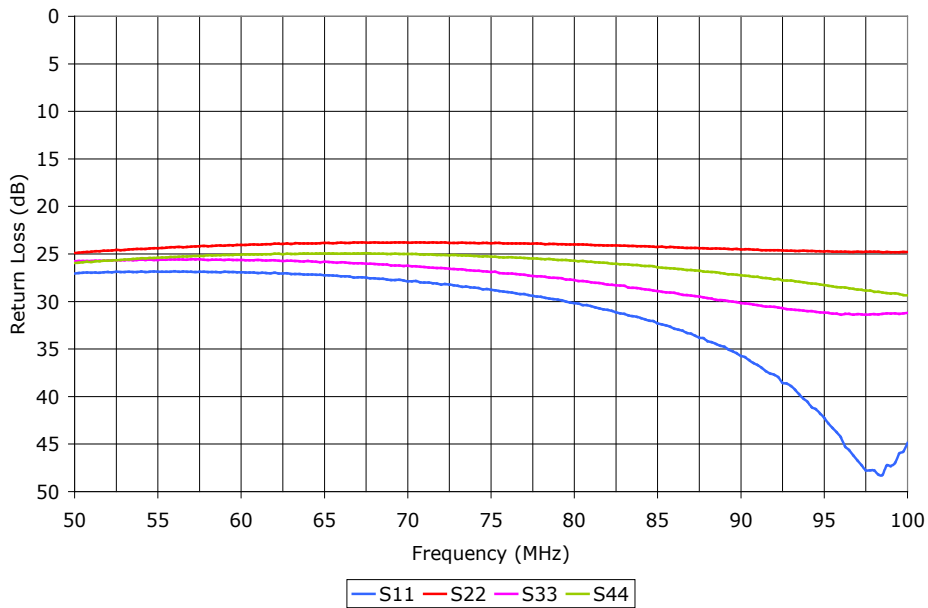
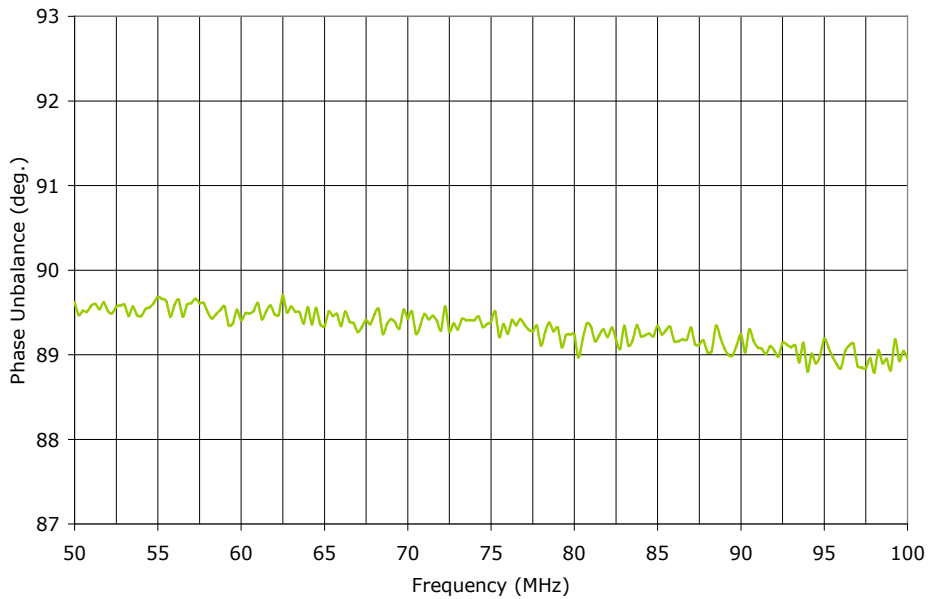
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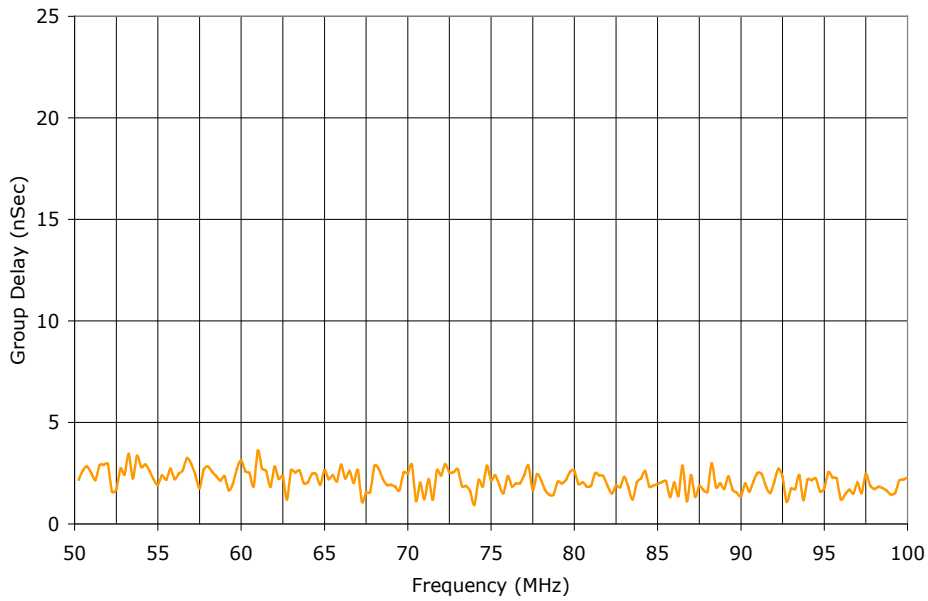
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