

90° HYBRID

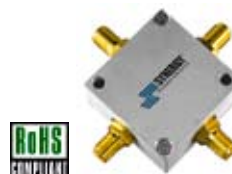
SURFACE MOUNT MODEL: DQK-100-1000

FREQUENCY BANDWIDTH

100 - 1000 MHz

FEATURES:

- ▶ Ultra-Wide Bandwidth (10:1)
- ▶ Small Package Size
- ▶ Building Block For:
 - Power Amplifiers
 - Image Rejection Mixers
 - I & Q / SSB Modulators
 - Phase Shifters & More...



SPECIFICATIONS

Frequency	100 - 1000 MHz	
Insertion Loss (dB) *	Typ.	Max.
	1.7	2.3
Amplitude Unbalance (dB)	Typ.	Max.
	0.8	1.8
Phase Unbalance (Deg.)	Typ.	Max.
	± 6	± 10
Isolation (dB)	Typ.	Min.
	23	16
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.6:1 (Typ)	
Operating Temperature Range	-20 to +70 °C	

* Insertion loss in excess of the theoretical 3 dB coupling.

Package #

113LF

All Dimensions in inches (mm)

Tolerances: 2 PL. ± 0.030 inch. (0.762mm)

3 PL. ± 0.015 inch. (0.381mm)

THRU-HOLES (2 PLACES)

A	- 1.250 inch. (31.75 mm)
B	- 1.250 inch. (31.75 mm)
C	- 0.750 inch. (19.05 mm)
D	- 0.375 inch. (9.525 mm)
E	- 1.000 inch. (25.4 mm)
F	- 1.000 inch. (25.4 mm)
G	- $\varnothing 0.136$ inch. (3.45 mm)
H	- 0.625 inch. (15.875 mm)
I	- 0.625 inch. (15.875 mm)

PORT IDENTIFICATION

Input	Isolated *	+90° Output	0° Output
1	2	3	4

* Terminate ISOLATED port with 50 ohms.

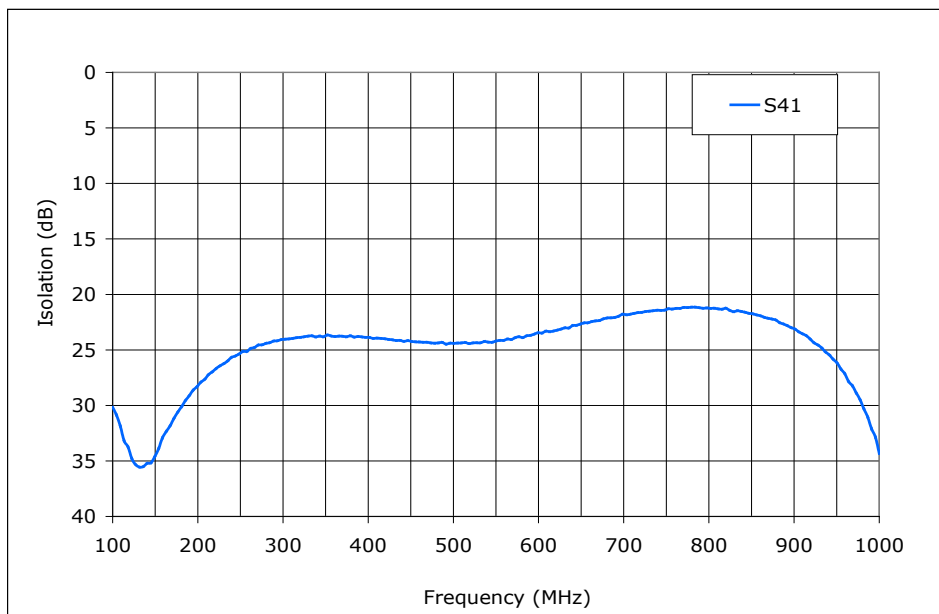
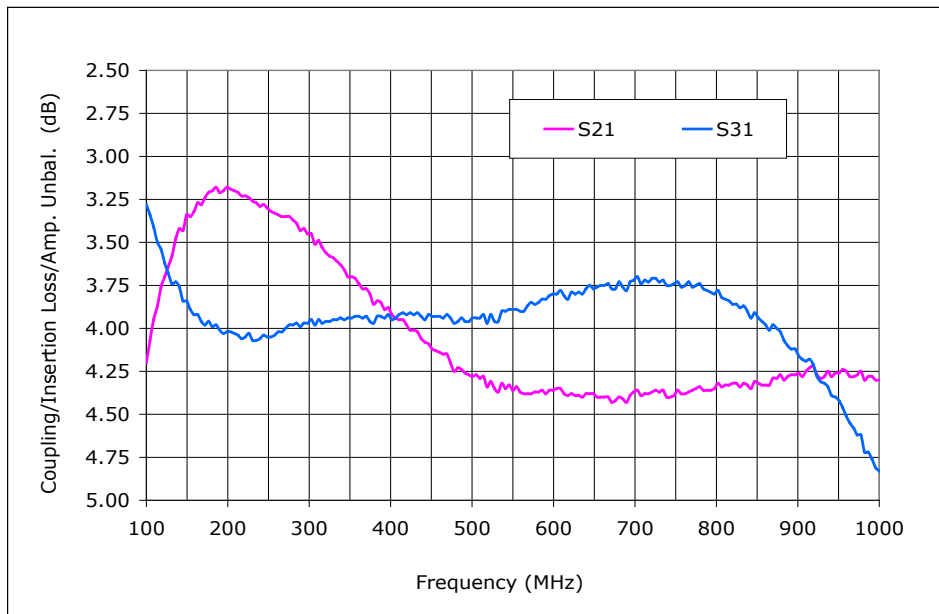
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Data @ 25°C



PERFORMANCE PLOTS

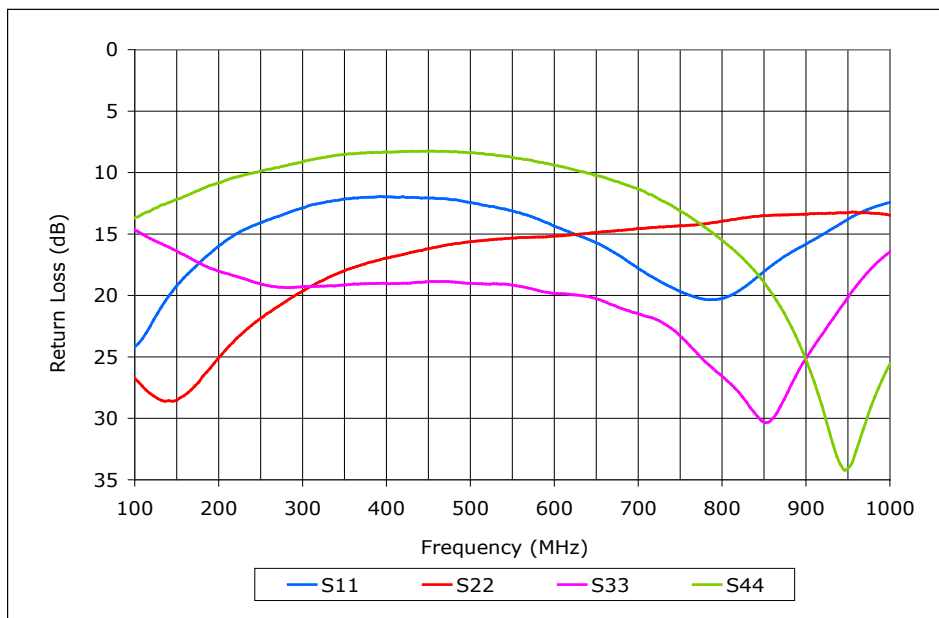
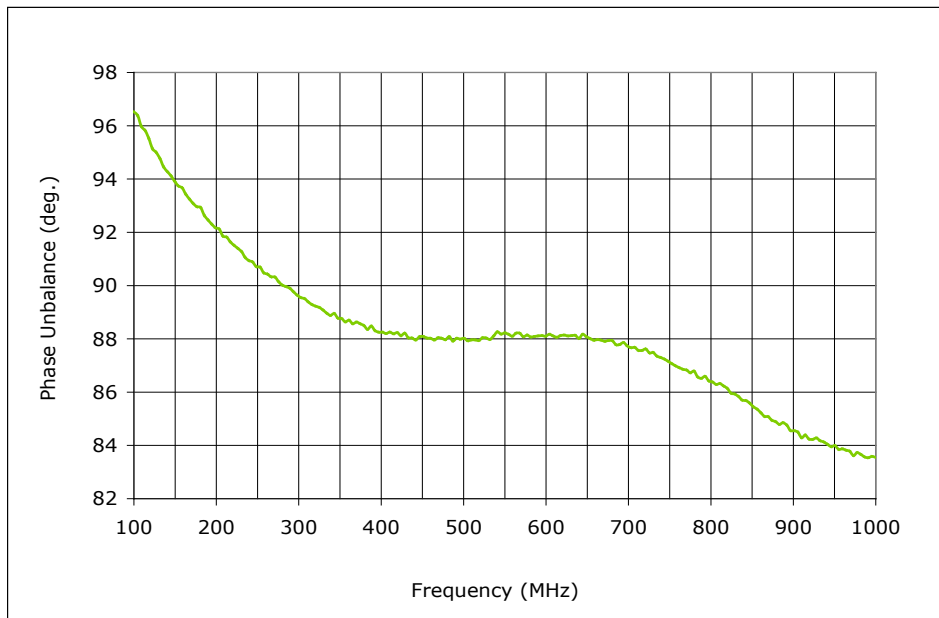
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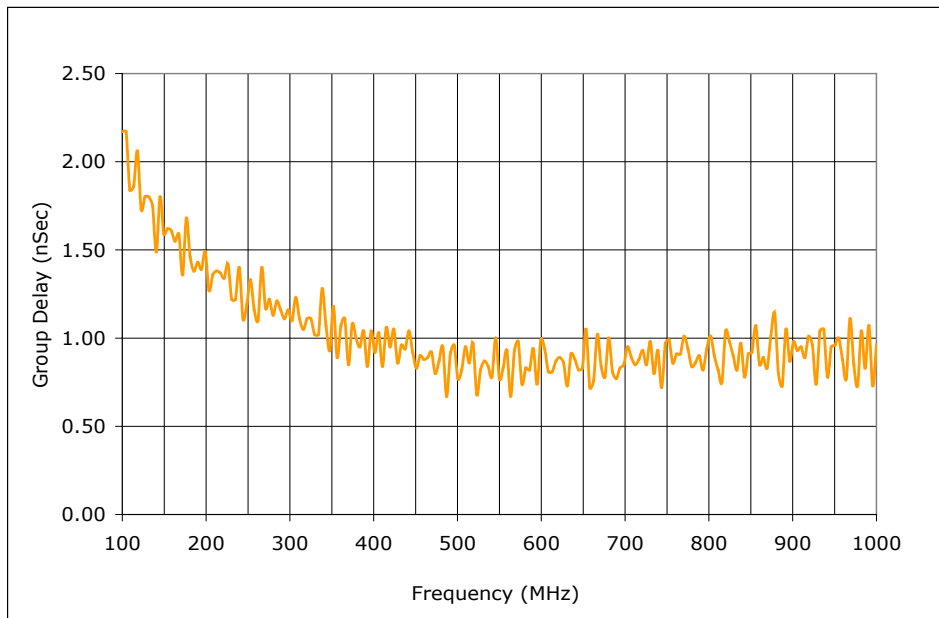
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