

QUADRATURE HYBRID

CONNECTORIZED MODEL: DQK-50-500S

10:1 BANDWIDTH

50 - 500 MHz

FEATURES:

- Building Block For:
 - Power Amplifiers
 - Image Rejection Mixers
 - I & Q / SSB Modulators
 - Phase Shifters & More...



SPECIFICATIONS

Frequency	50 - 500 MHz	
Insertion Loss (dB)	Typ.	Max.
	1.7	2.2
Amplitude Unbalance (dB)	Typ.	Max.
	1.0	1.5
Phase Unbalance (Deg.)	Typ.	Max.
	3.0	5.0
Isolation (dB)	Typ.	Min.
	25	13
VSWR	1.3:1 (Typ.)	
Impedance	50 Ohms (Nom.)	
Operating Temperature Range	-55 to +85°C	

Package #

113LF

All Dimensions in inches (mm)

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

3 PL. ± 0.015 inch. (0.381mm)

Technical drawing of the 113LF package showing three views: top, side, and front. The top view is a square with four SMA connectors labeled 1, 2, 3, and 4. Dimensions A, B, C, D, E, F, G, H, and I are indicated. The side view shows the height B and the width C. The front view shows the width A and the height D. The drawing also indicates two thru-holes (G) and a dimension E for the distance between the thru-holes.

Dimensions:

- 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 CONFIGURATION

Input

Isolated

+90° Output

0° Output

1

2

3

4

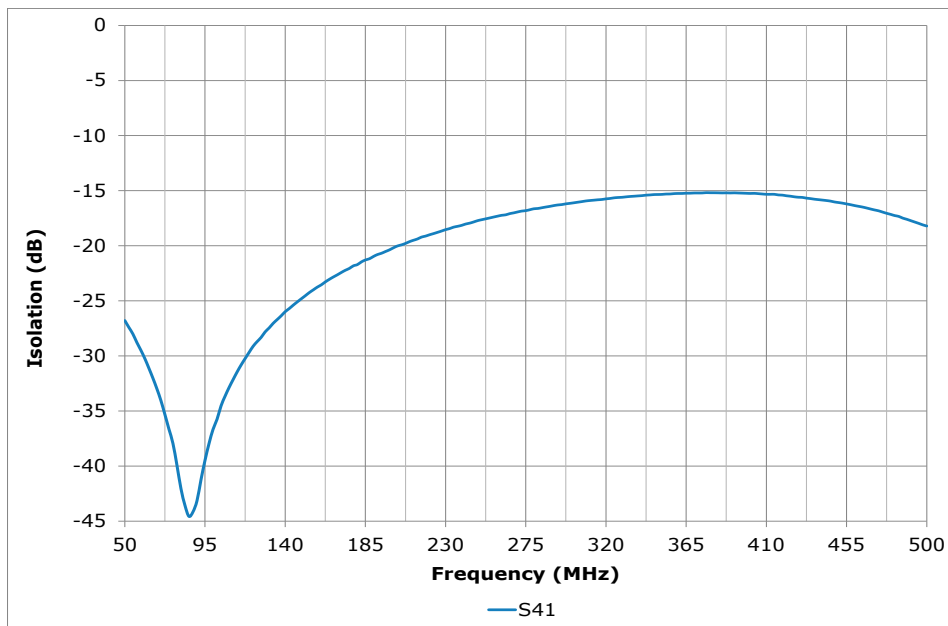
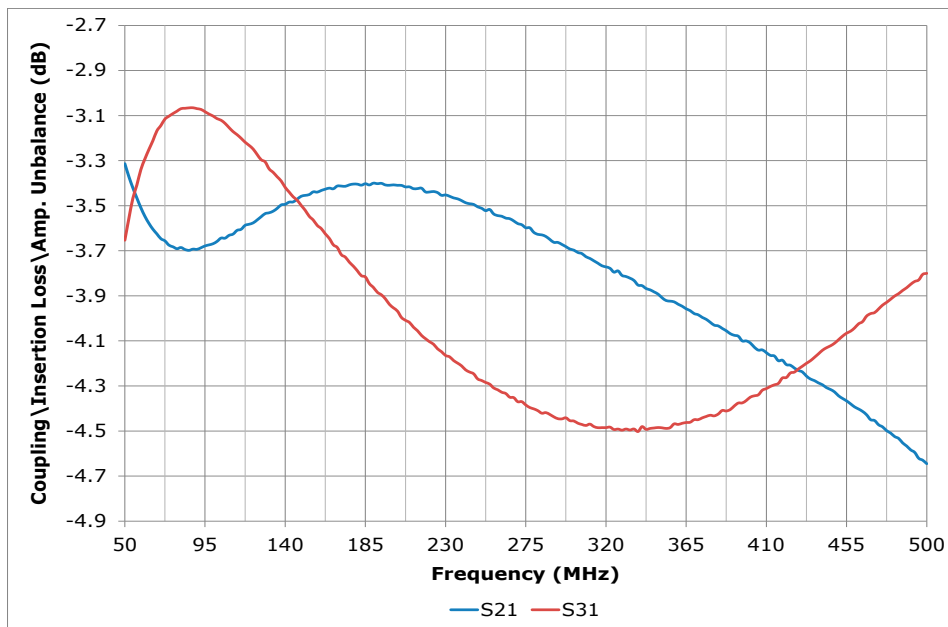
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Data @ 25°C



PERFORMANCE PLOTS

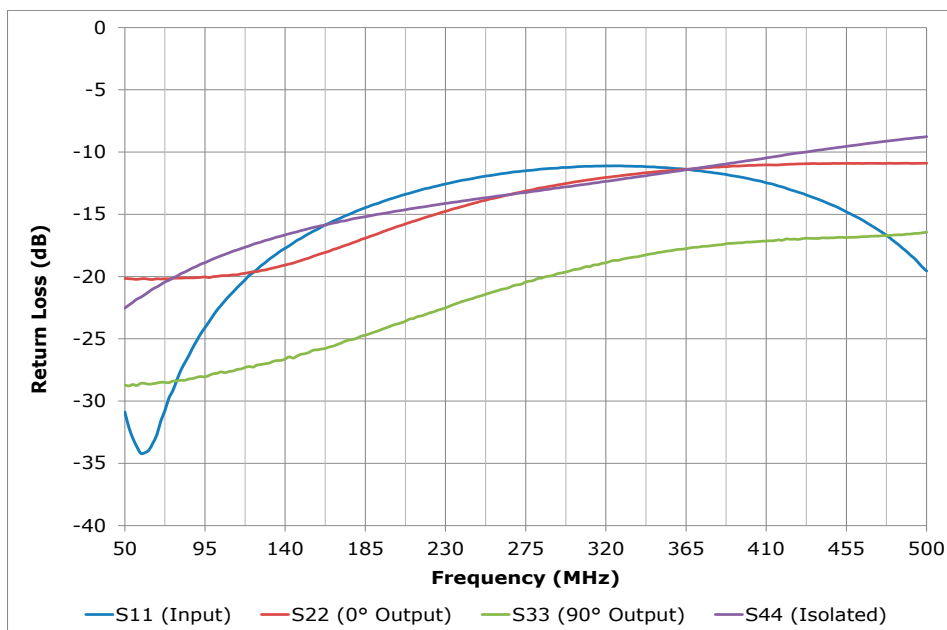
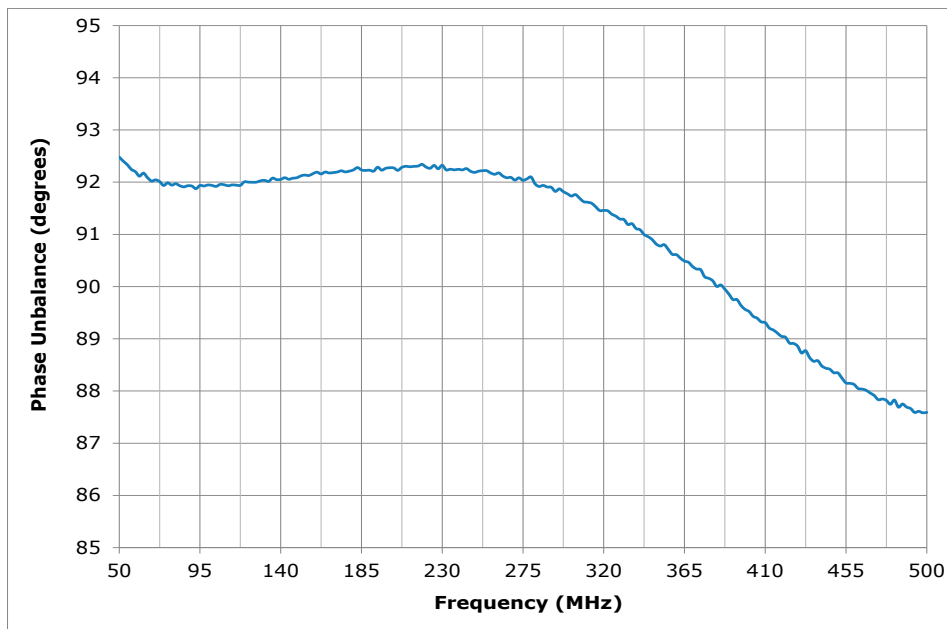
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