

QUADRATURE HYBRID

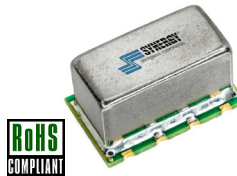
SURFACE MOUNT MODEL: DQS-50-500

10:1 BANDWIDTH

50 - 500 MHz

FEATURES:

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



SPECIFICATIONS (Rev. B 06/26/25)

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.)	
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
Operating Temperature Range	-40 to +85°C	

Package #	102SLF			
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0.840
0.520
0.440 MAX
0.400 MAX
0.200
0.150
0.060
0.120

TOP VIEW
BOTTOM VIEW
SIDE VIEW

LAYOUT FOT PRINTED
CIRCUIT DESIGN

0.200
0.080
0.560
0.175
0.680

6 PLS.
8 PLS.
8 PLS.

TOLERANCES ON THREE DECIMAL PLACES= ± 0.010

PORT CONFIGURATION				
Input	Isolated	+90° Output	0° Output	Case GND
1	2	8	7	3,4,5,6

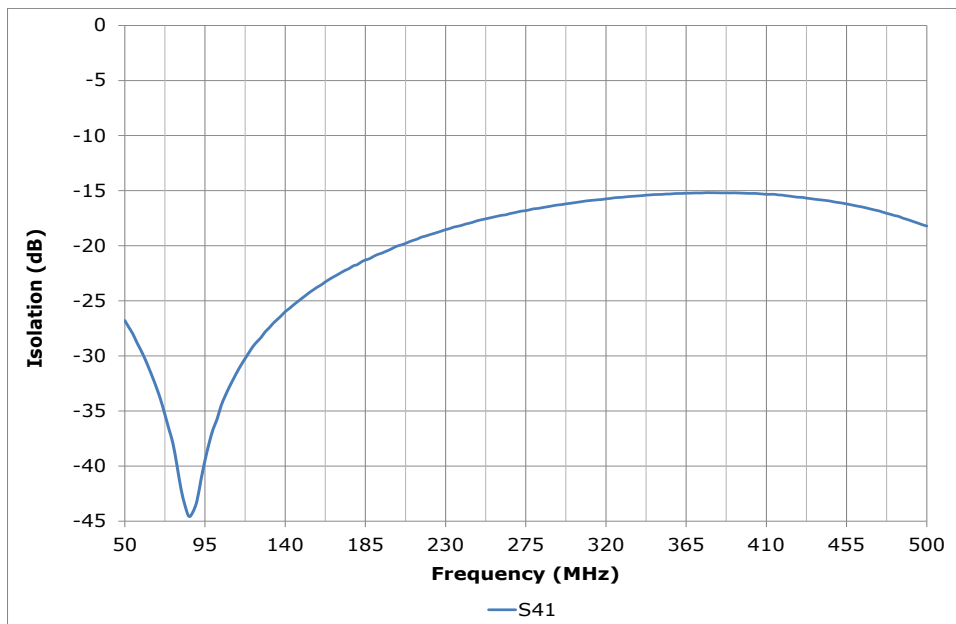
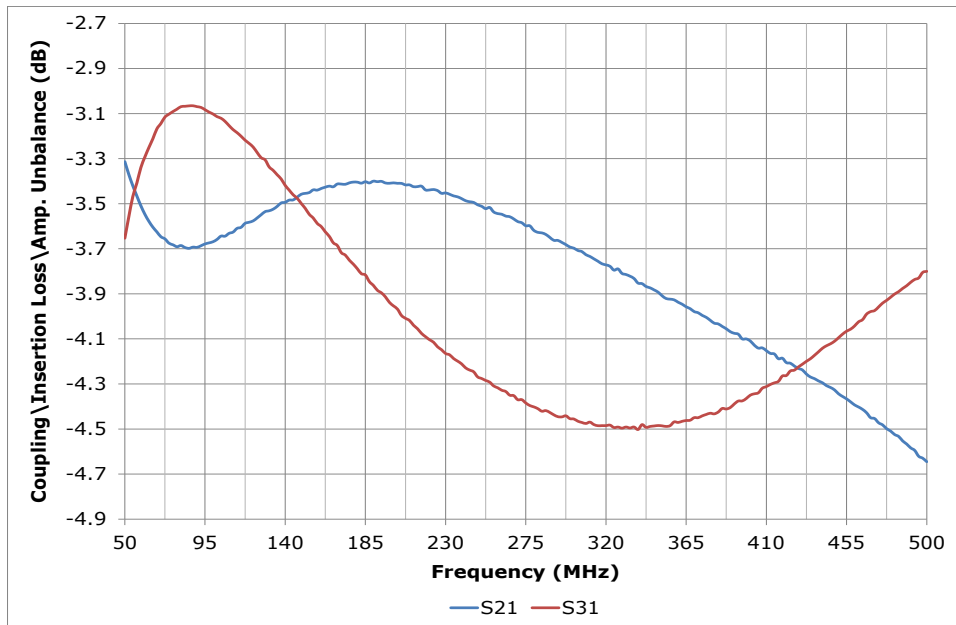
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Data @ 25°C



PERFORMANCE PLOTS

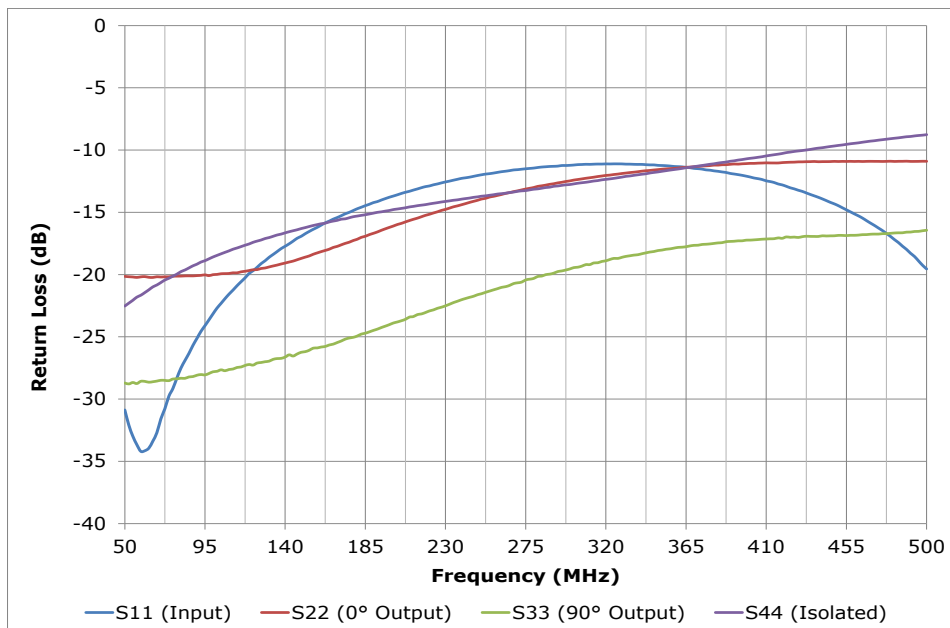
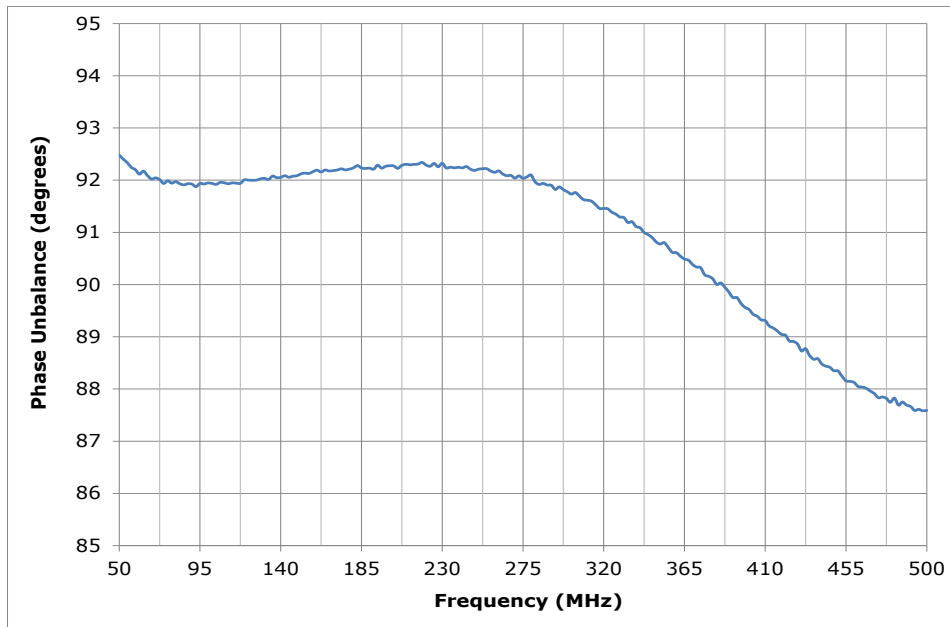
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