

90° HYBRID

SURFACE MOUNT MODEL: DQS-30-150

FREQUENCY BANDWIDTH

30 - 150 MHz

FEATURES:

- ▶ Ultra-Wide Bandwidth (5:1)
- ▶ Small Package Size, Surface Mount
- ▶ Building Block For:
 - Power Amplifiers
 - Image Rejection Mixers
 - I & Q / SSB Modulators
 - Phase Shifters & More...



SPECIFICATIONS (Rev. E 06/26/25)

Frequency	30 - 150 MHz	
Insertion Loss (dB) *	Typ.	Max.
	0.8	1.0
Amplitude Unbalance (dB)	Typ.	Max.
	0.5	0.9
Phase Unbalance (Deg.)	Typ.	Max.
	1.5	3.0
Isolation (dB)	Typ.	Min.
	30	20
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.3:1 (Typ.)	
Operating Temperature Range	-40 to +85 °C	
* Insertion loss in excess of the theoretical 3 dB coupling.		

Package #

102SLF

Technical drawings of the 102SLF package:

- TOP VIEW:** Shows a rectangular package with dimensions 0.840 (width) and 0.520 (height). Port locations are numbered 1 through 8. A dimension of 0.200 is shown between ports 1 and 3.
- BOTTOM VIEW:** Shows the mounting pads with dimensions 0.060, 0.120, and 0.150. Port locations are numbered 1 through 8.
- SIDE VIEW:** Shows the package height with dimensions 0.400 MAX and 0.440 MAX.
- LAYOUT FOT PRINTED CIRCUIT DESIGN:** Shows the internal layout with dimensions 0.200 (6 PLS.), 0.080 (8 PLS.), 0.560, 0.680, and 0.175 (8 PLS.).

TOLERANCES ON THREE DECIMAL PLACES= ± 0.010

PORT IDENTIFICATION

Input	Isolated*	+90° Output	0° Output	GND
1	2	8	7	All Others

* Terminate ISOLATED port with 50 Ohms.

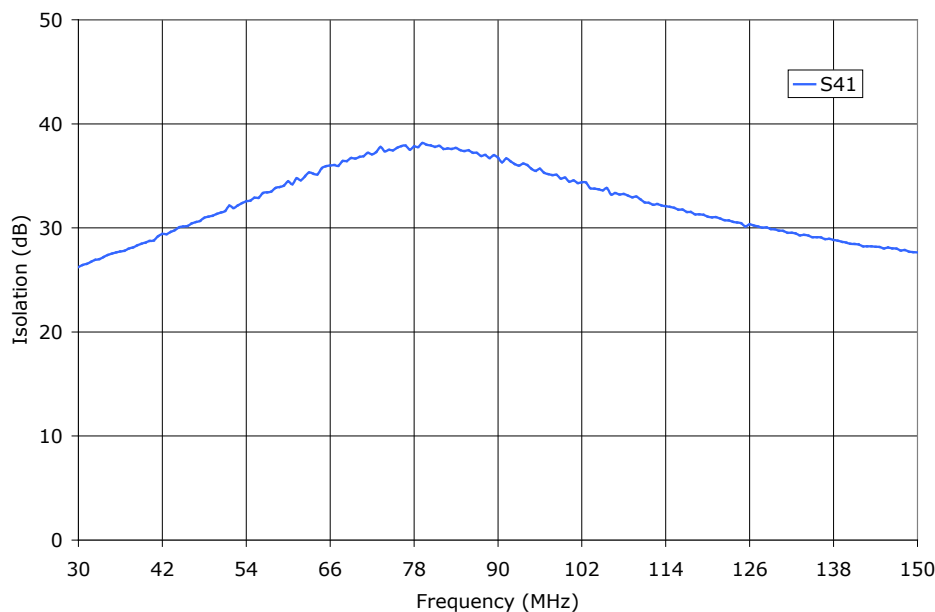
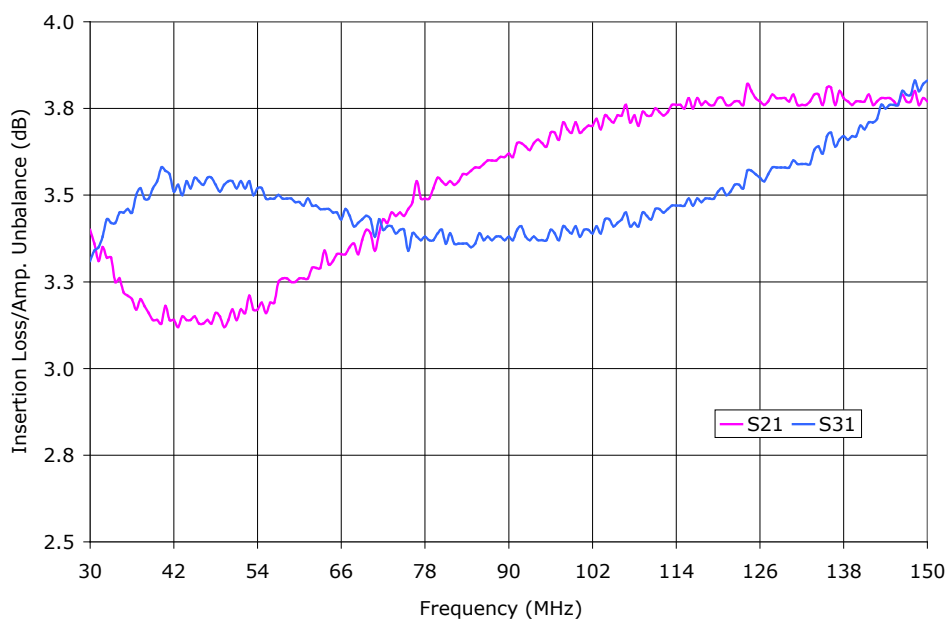
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PERFORMANCE PLOTS

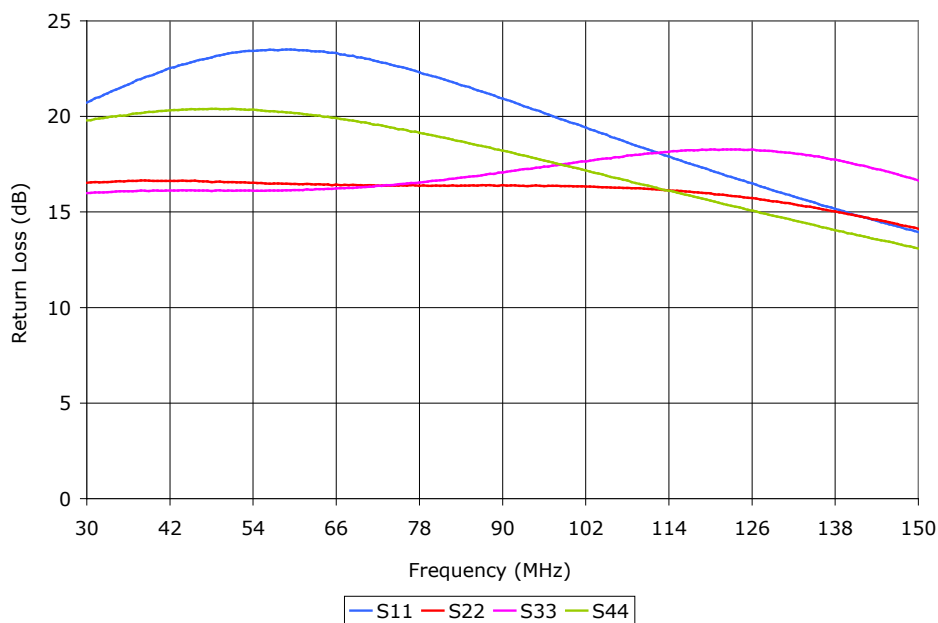
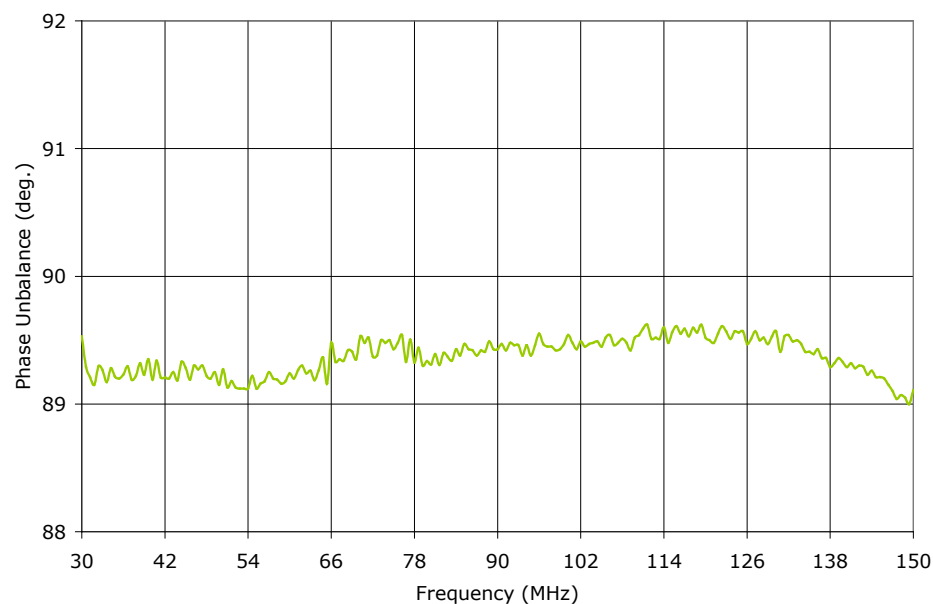
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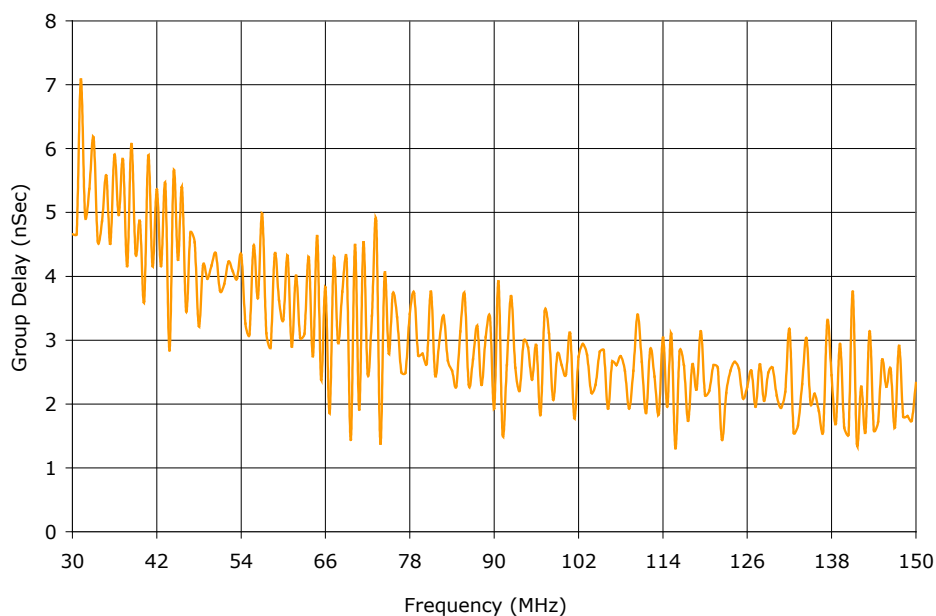
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