

90° HYBRID

SURFACE MOUNT MODEL: DQS-100-1000

FREQUENCY BANDWIDTH

100 - 1000 MHz

FEATURES:

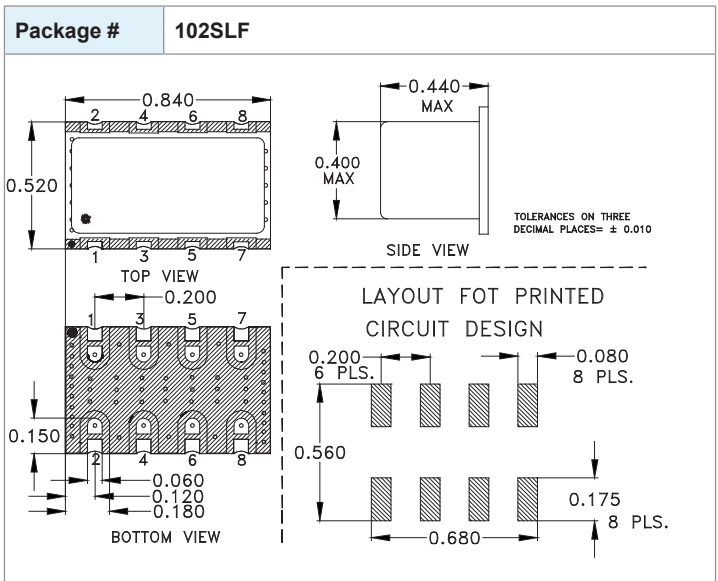
- ▶ Ultra-Wide Bandwidth (10:1)
- ▶ Small Package Size
- ▶ Building Block For:
 - Power Amplifiers
 - Image Rejection Mixers
 - I & Q / SSB Modulators
 - Phase Shifters & More...



SPECIFICATIONS (Rev. F 11/25/24)

Frequency	100 - 1000 MHz	
Insertion Loss (dB)¹	Typ.	Max.
	1.5	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	-40 to +85 °C	

¹ Insertion loss in excess of the theoretical 3 dB coupling.



PORT CONFIGURATION

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

*Terminate isolated port with 50 Ohms externally.
 ** Ground externally.

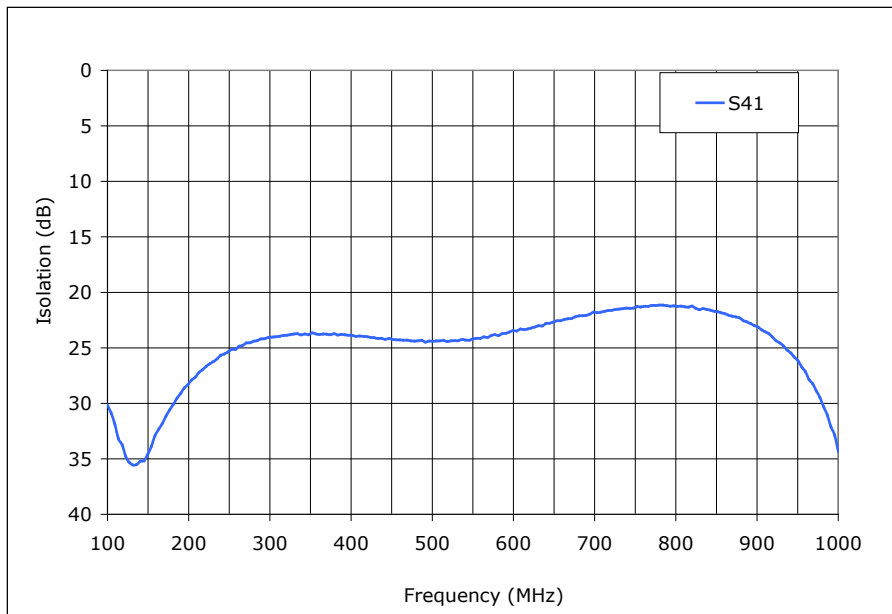
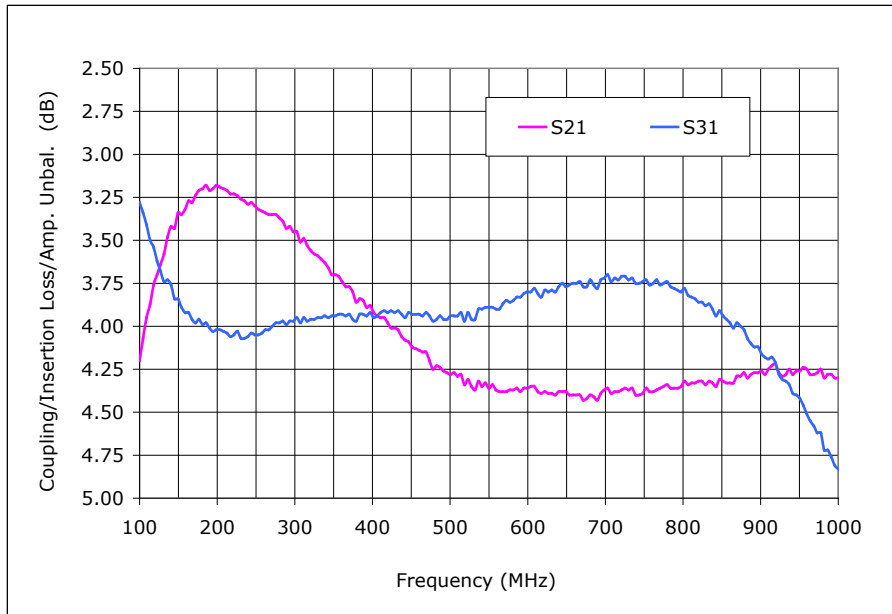
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Data @ 25°C



PERFORMANCE PLOTS

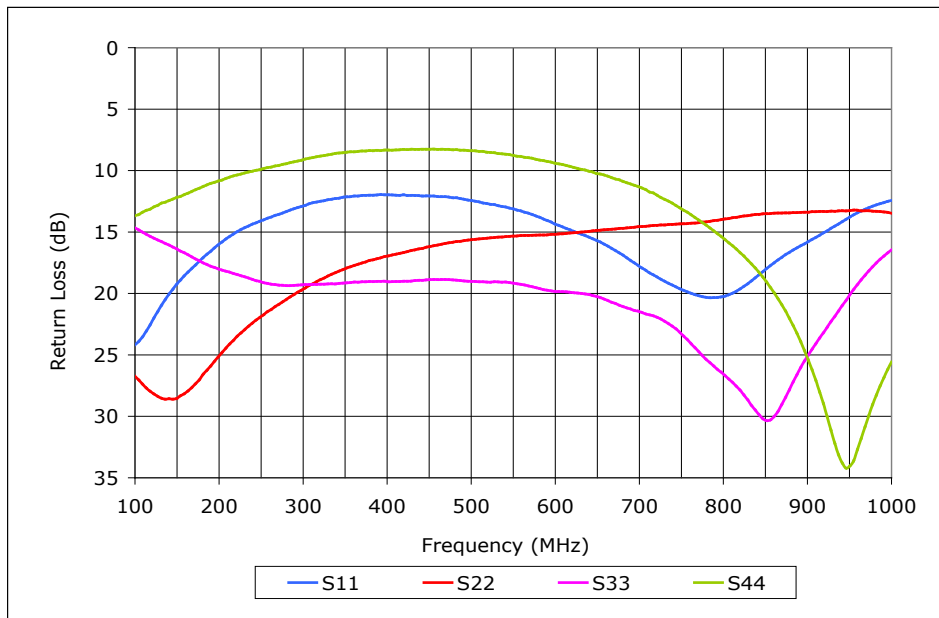
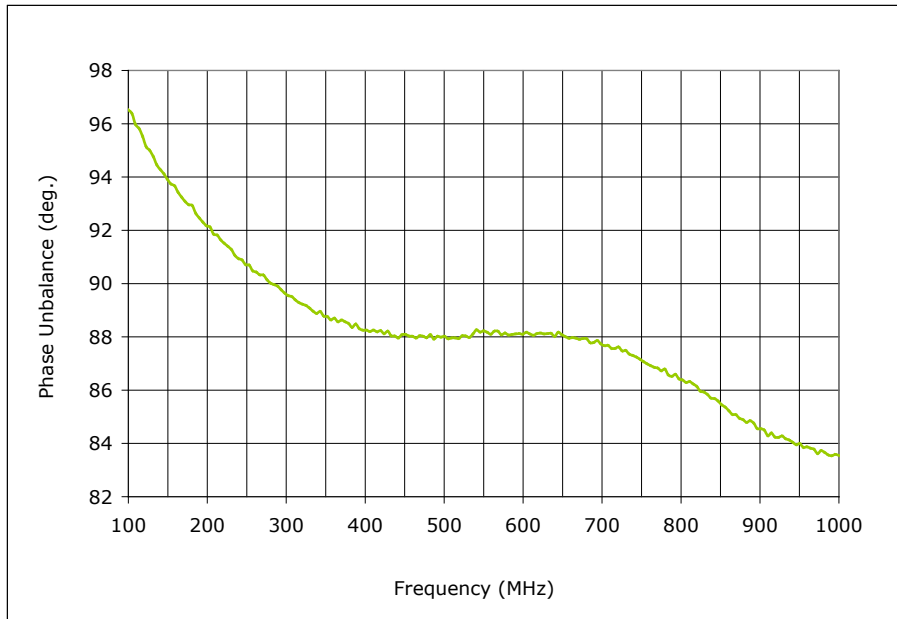
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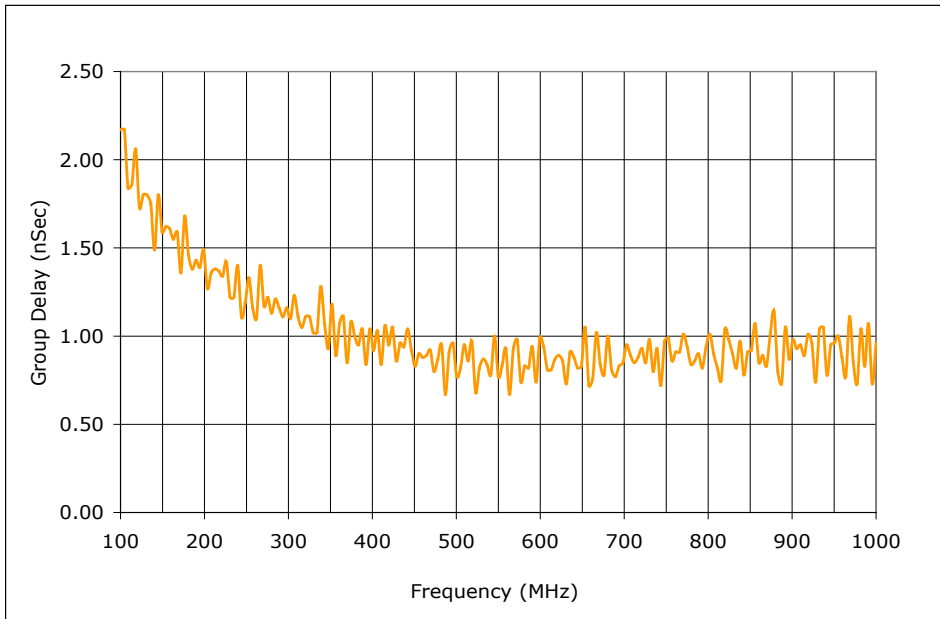
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