

# 90° HYBRID

## SURFACE MOUNT MODEL: DQS-15-150

**WIDE BANDWIDTH**

**15 - 150 MHz**

**FEATURES:**

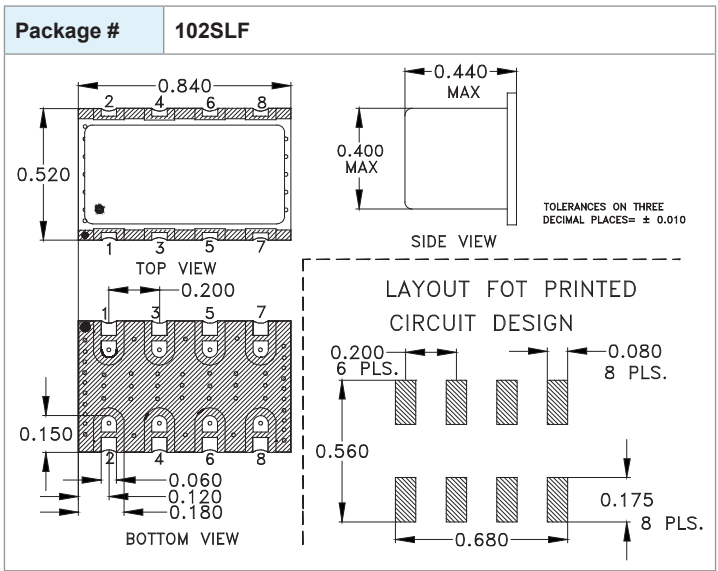
- ▶ Ultra-Wide Bandwidth (10:1)
- ▶ Small Package Size
- ▶ Building Block For:
  - Amplifiers
  - Image Rejection Mixers
  - I & Q / SSB Modulators
  - Phase Shifters & More...



**SPECIFICATIONS (Rev. A 03/27/19)**

Frequency	15 - 150 MHz	
Insertion Loss (dB) <sup>1</sup>	Typ.	Max.
	1.2	1.7
Amplitude Unbalance (dB)	Typ.	Max.
	0.9	1.2
Phase Unbalance (Deg.)	Typ.	Max.
	± 2.5	± 4.0
Isolation (dB)	Typ.	Min.
	23	18
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.2:1 (Typ)	
Operating Temperature Range	-40 to +85 °C	

<sup>1</sup> 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.

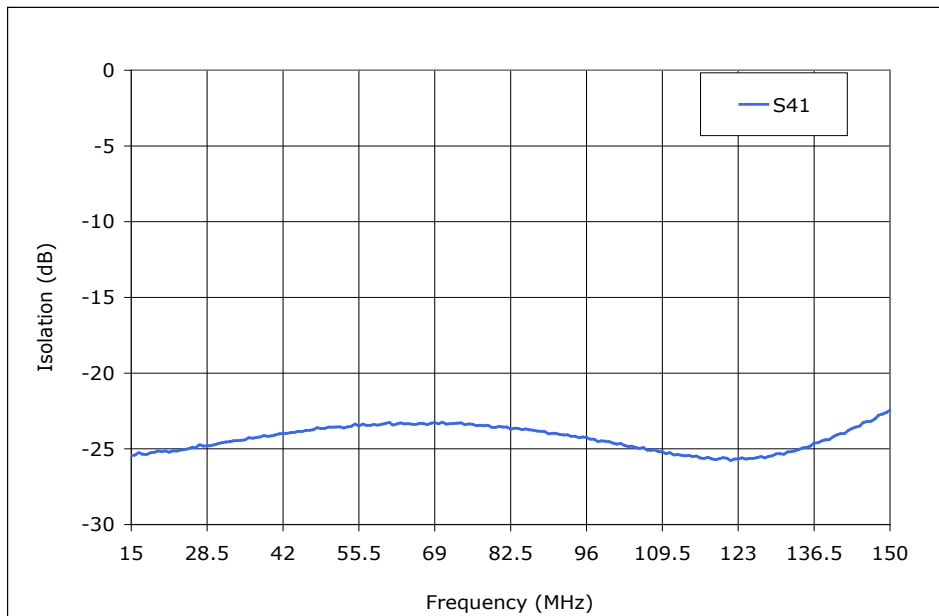
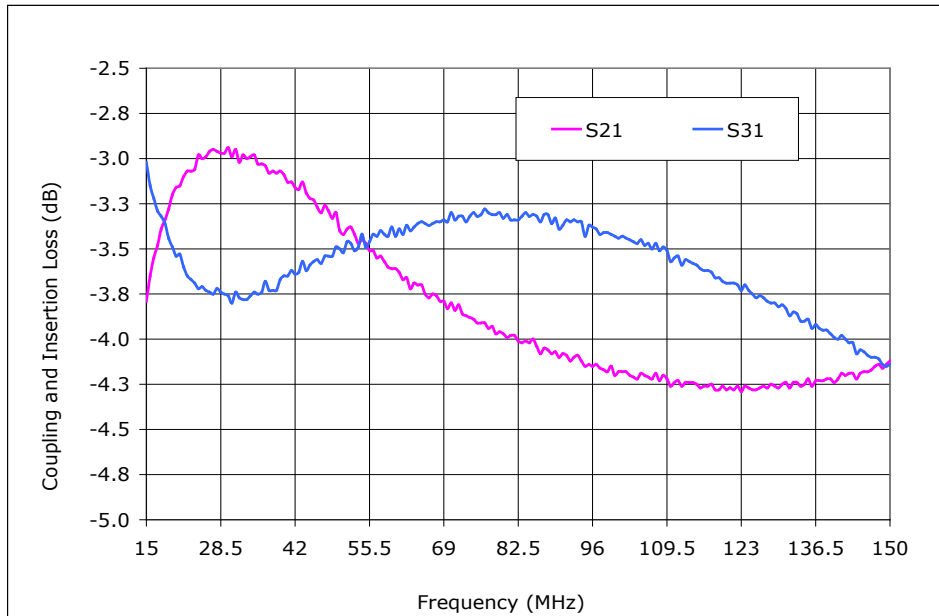
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Data @ 25°C



PERFORMANCE PLOTS

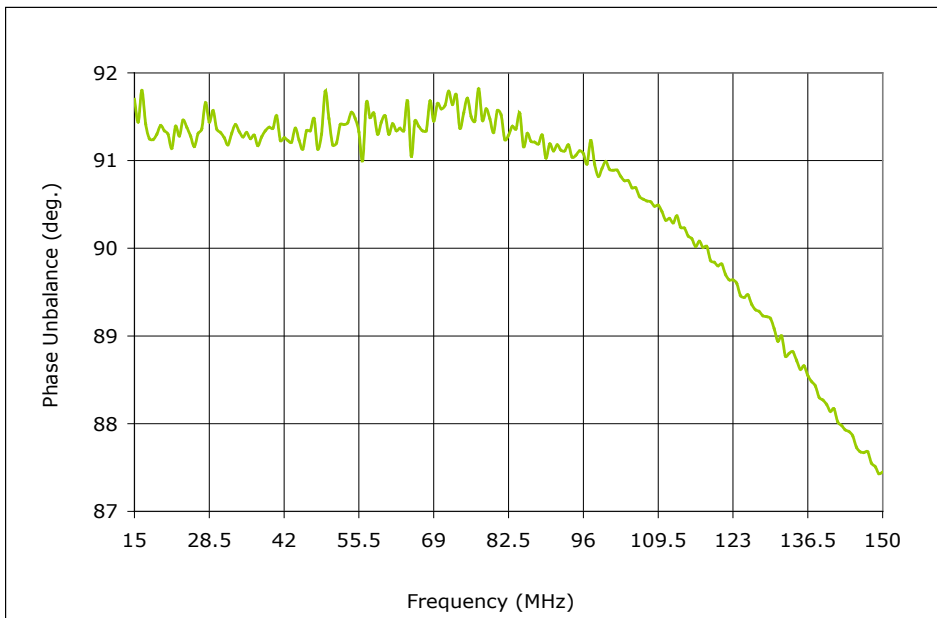
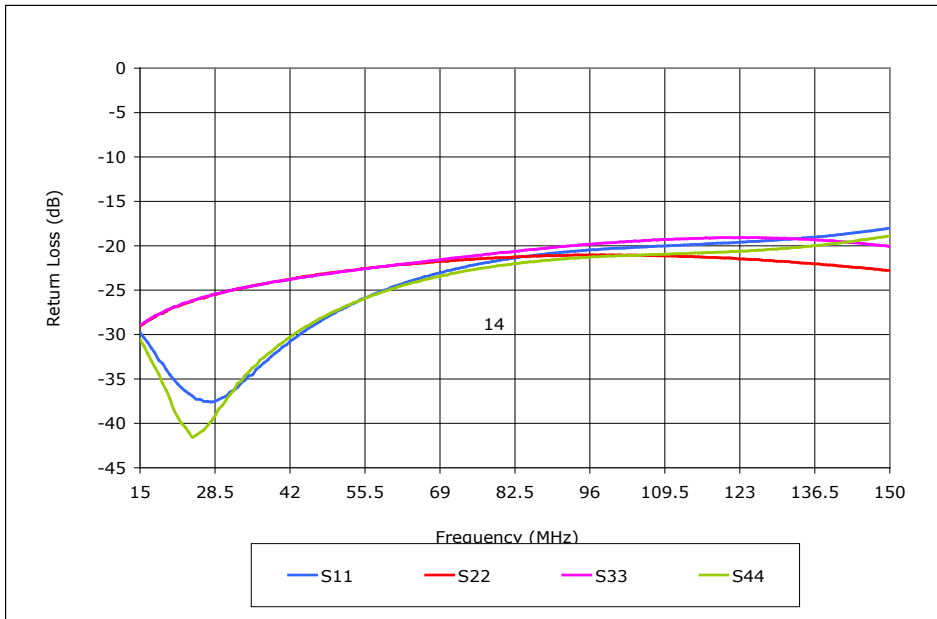
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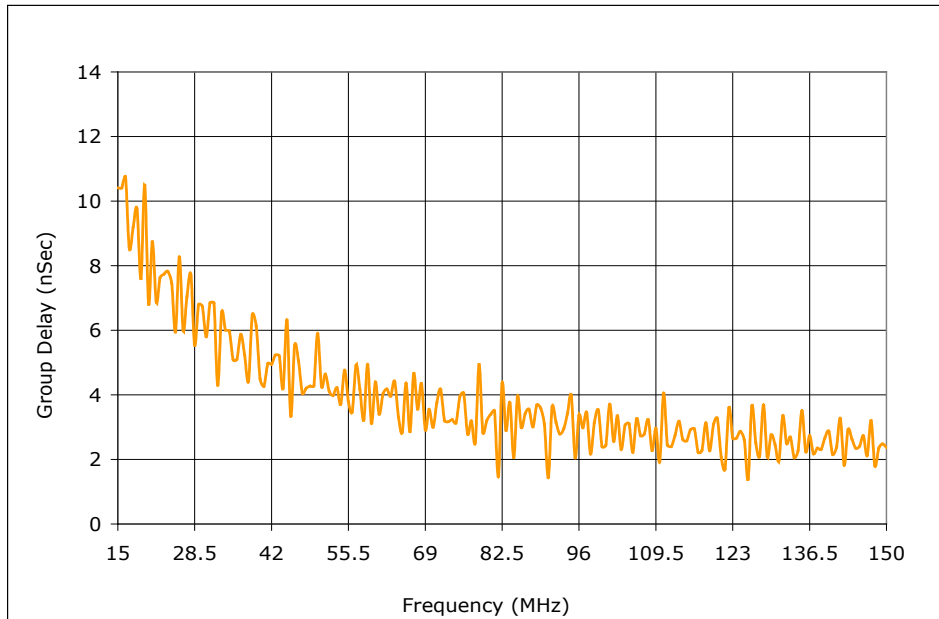
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