

# 90° HYBRID

## SURFACE MOUNT MODEL: DQS-118-174

OPTIMIZED BANDWIDTH

118 - 174 MHz

### FEATURES:

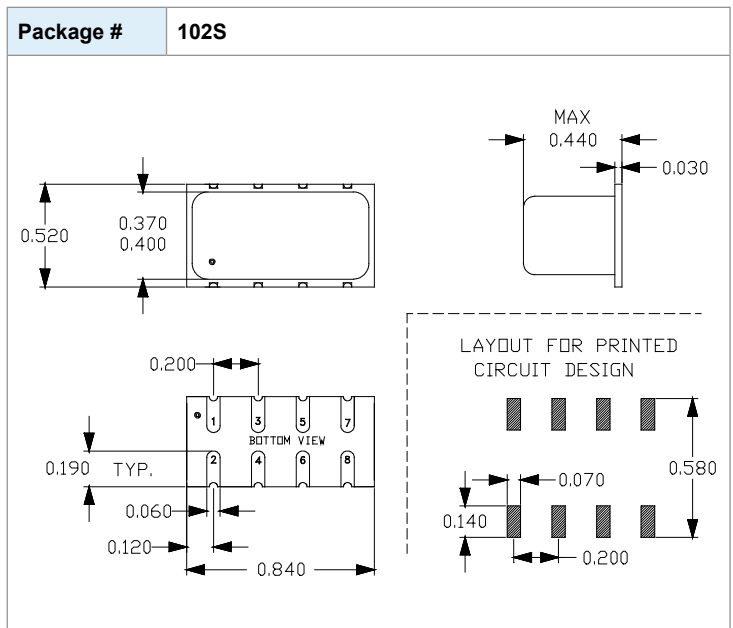
- ▶ Optimized Bandwidth
- ▶ Small Package Size, Surface Mount
- ▶ Building Block For:
  - Power Amplifiers
  - Image Rejection Mixers
  - I & Q / SSB Modulators
  - Phase Shifters & More...



### SPECIFICATIONS (Rev. A 02/24/10)

Frequency	118 - 174 MHz	
Insertion Loss (dB) *	Typ.	Max.
	0.3	0.6
Amplitude Unbalance (dB)	Typ.	Max.
	0.4	1.0
Phase Unbalance (Deg.)	Typ.	Max.
	1.0	3.0
Isolation (dB)	Typ.	Min.
	23	18
Input Power	25 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.35:1 (Typ.)	
Operating Temperature Range	-40 to +85 °C	

\* Insertion loss in excess of the theoretical 3 dB coupling.



#### PORT CONFIGURATION

Input	Isolated*	+90° Output	0° Output	GND
1	2	6	5	All Others

\* Terminate ISOLATED port with 50 Ohms.

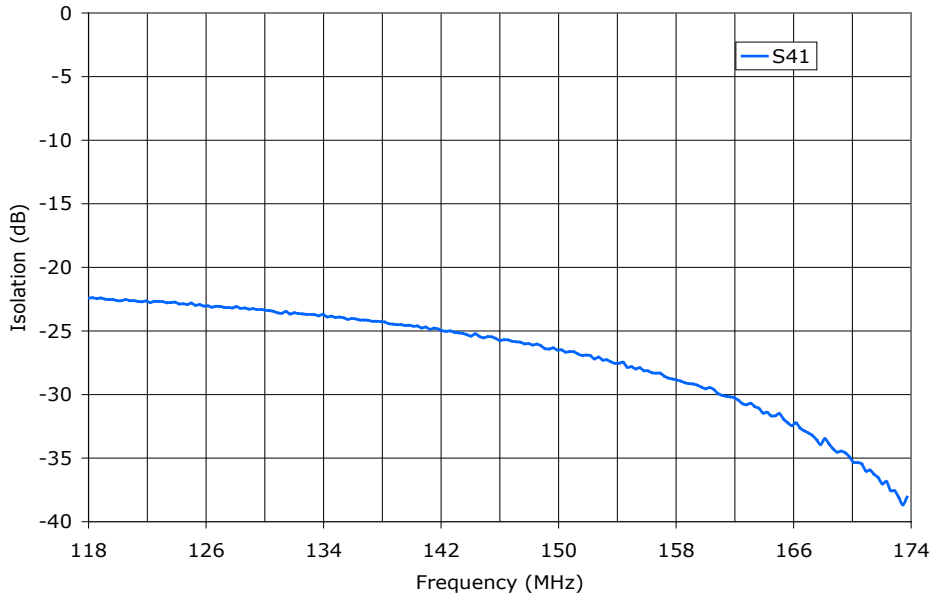
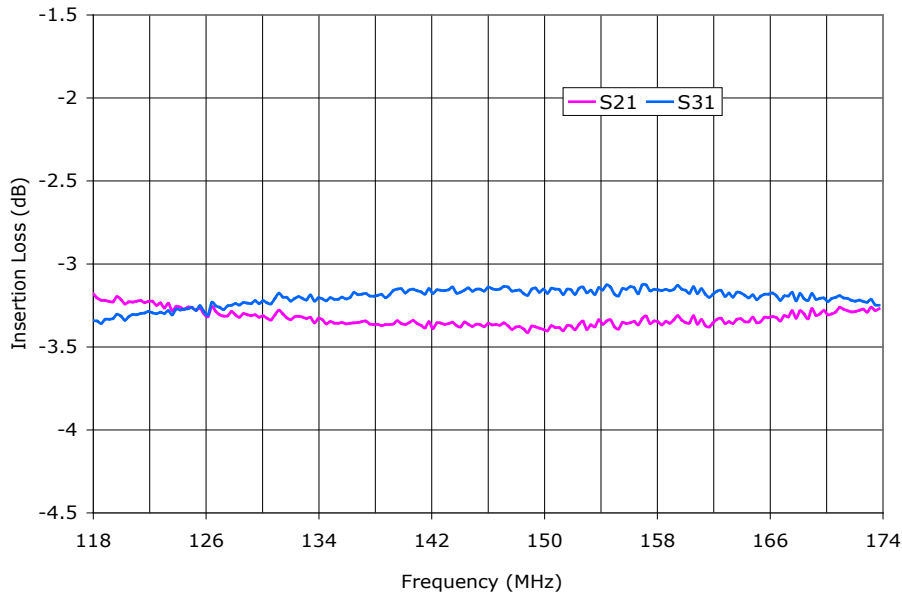
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Data @ 25°C



PERFORMANCE PLOTS

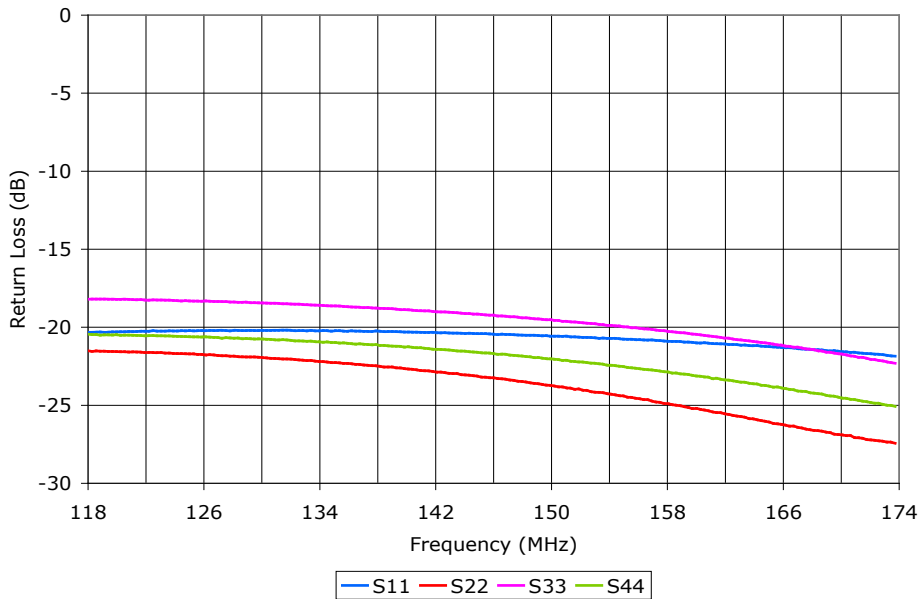
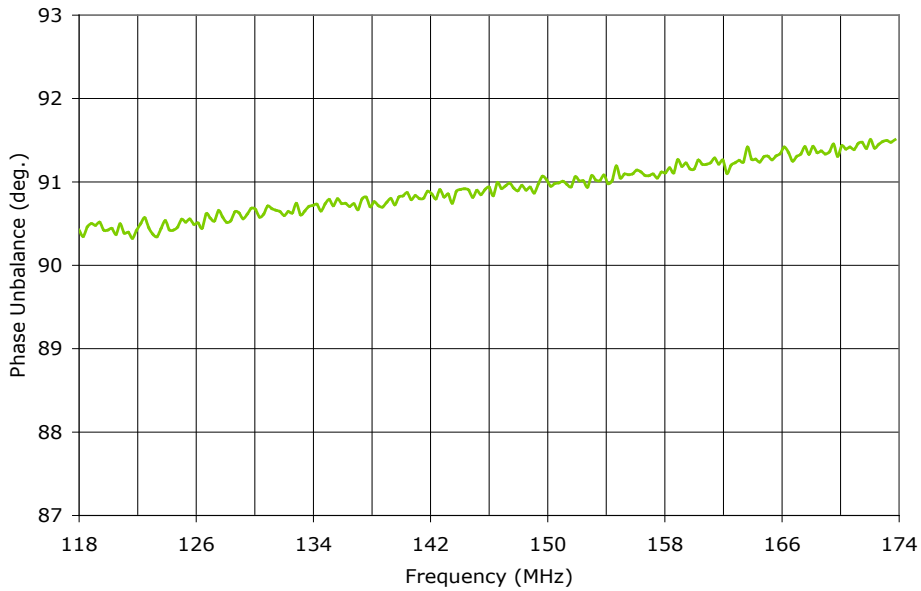
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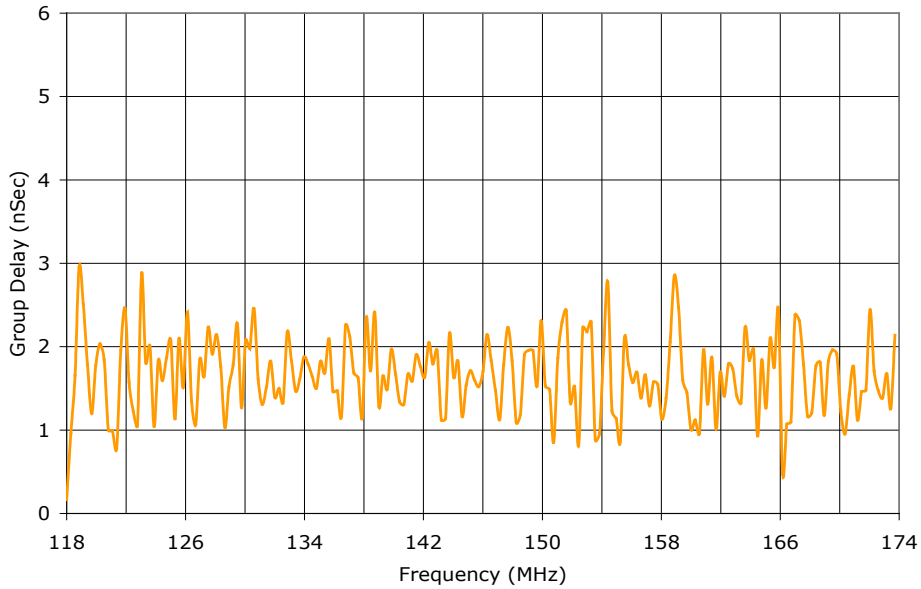
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