

90° HYBRID

SURFACE MOUNT MODEL: DQS-118-174

OPTIMIZED BANDWIDTH

118 - 174 MHz

FEATURES:

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



SPECIFICATIONS (Rev. B 10/01/24)

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
Power Rating	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.

Package #	102SLF-3
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TOP VIEW

SIDE VIEW

BOTTOM VIEW

LAYOUT FOT PRINTED
CIRCUIT DESIGN

REL-PRO PATENT NO. 7,612,296
TOLERANCES ON THREE DECIMAL PLACES= ± 0.015
PACKAGE MOUNTING: SEE APPLICATION NOTES AN7200 & AN7301
DIMENSIONS ARE IN INCHES.

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

* Terminate ISOLATED port with 50 Ohms

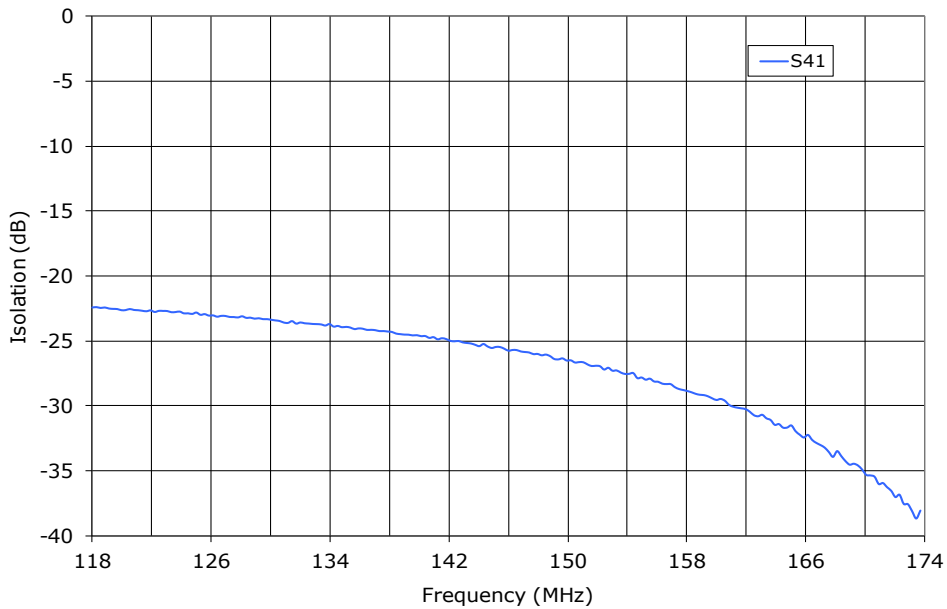
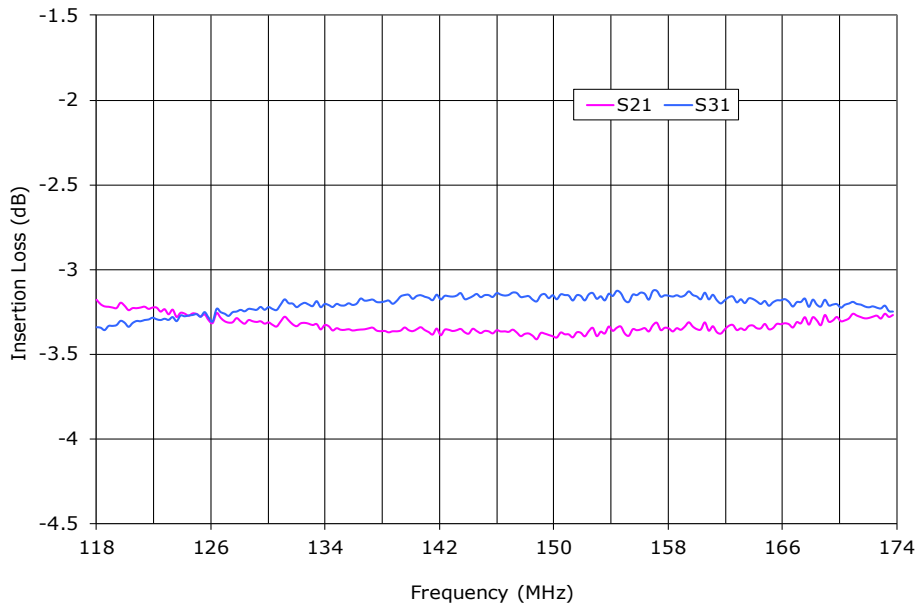
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PERFORMANCE PLOTS

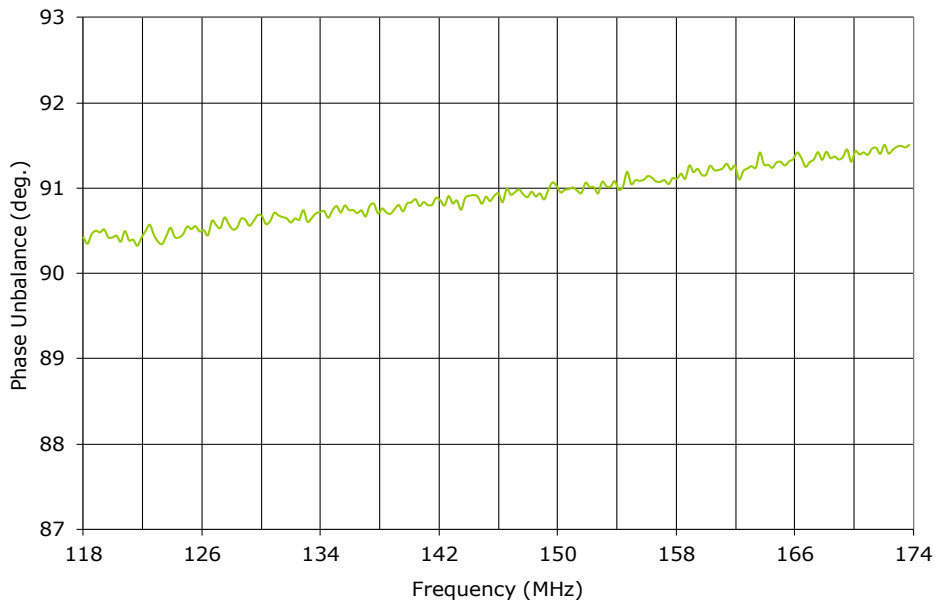
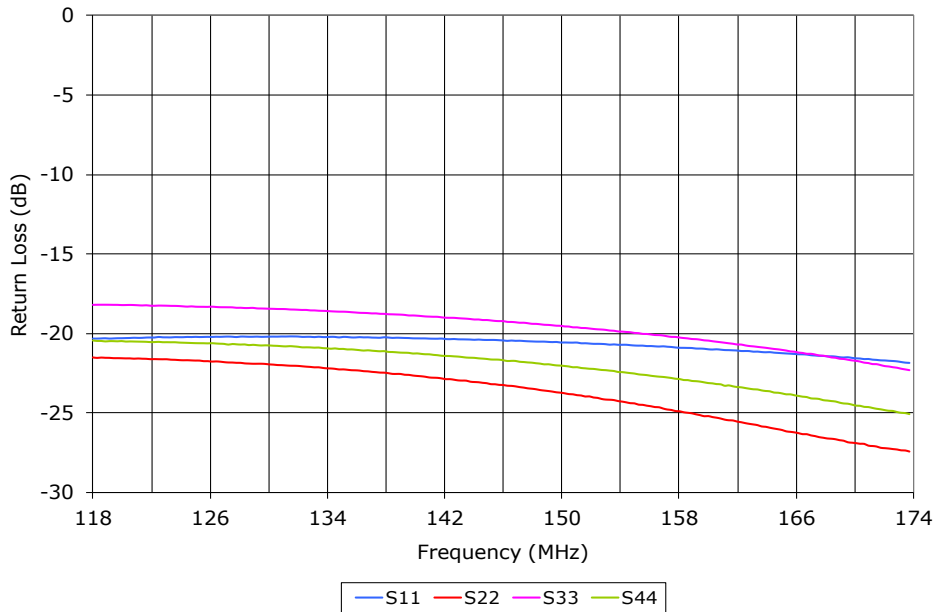
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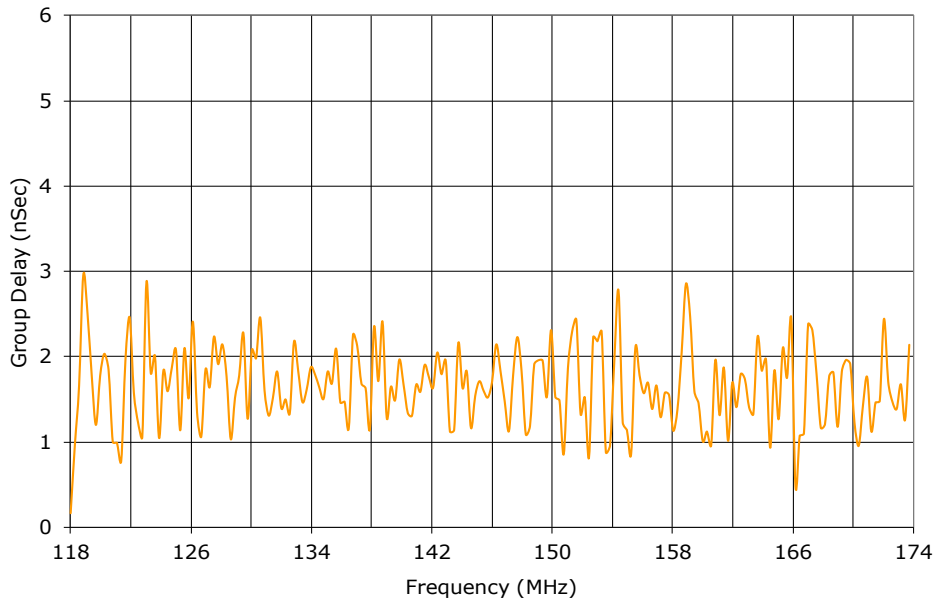
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