

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. C 10/04/07)

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 #	120S
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LAYOUT FOR PRINTED
CIRCUIT DESIGN

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

* Terminate ISOLATED port with 50 Ohms.

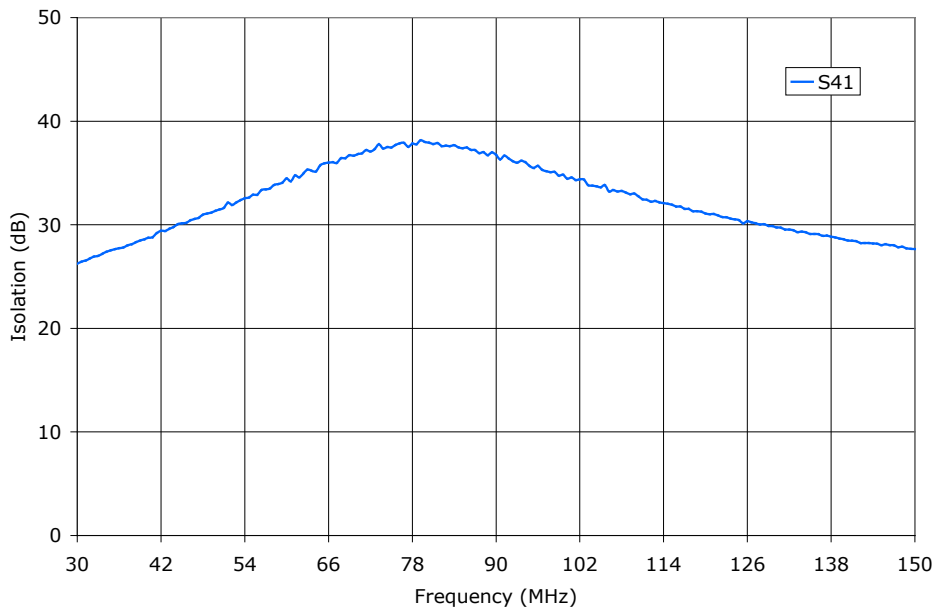
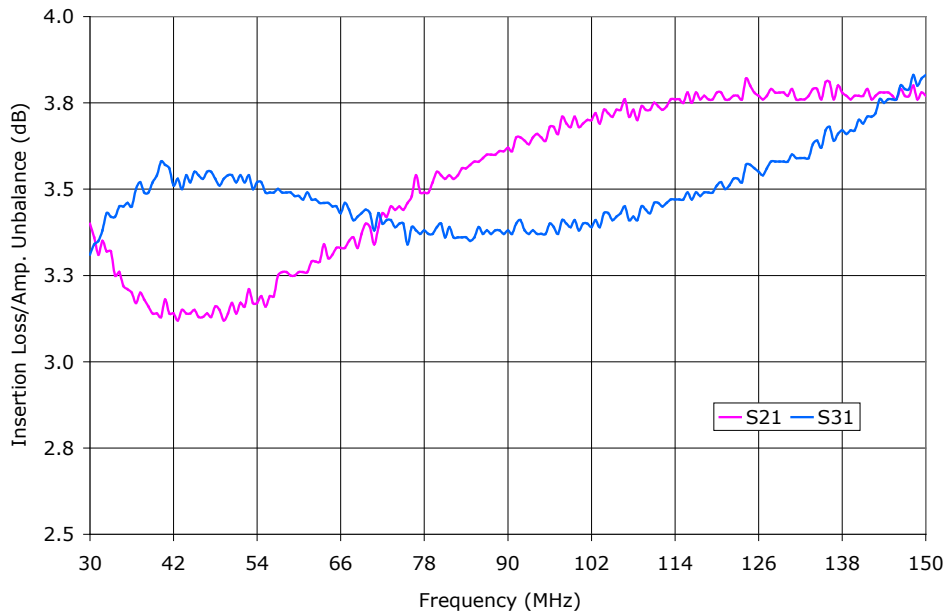
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PERFORMANCE PLOTS

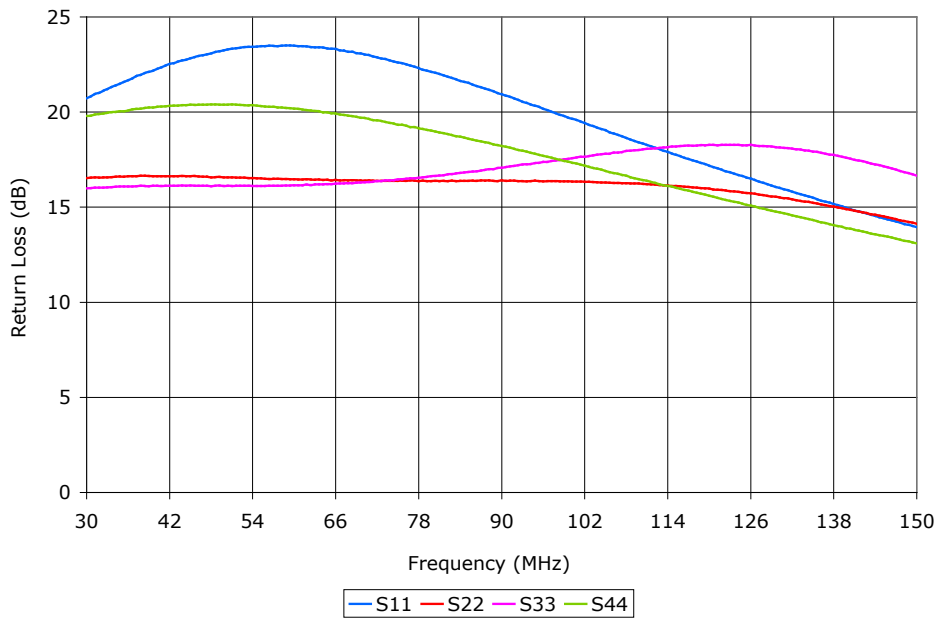
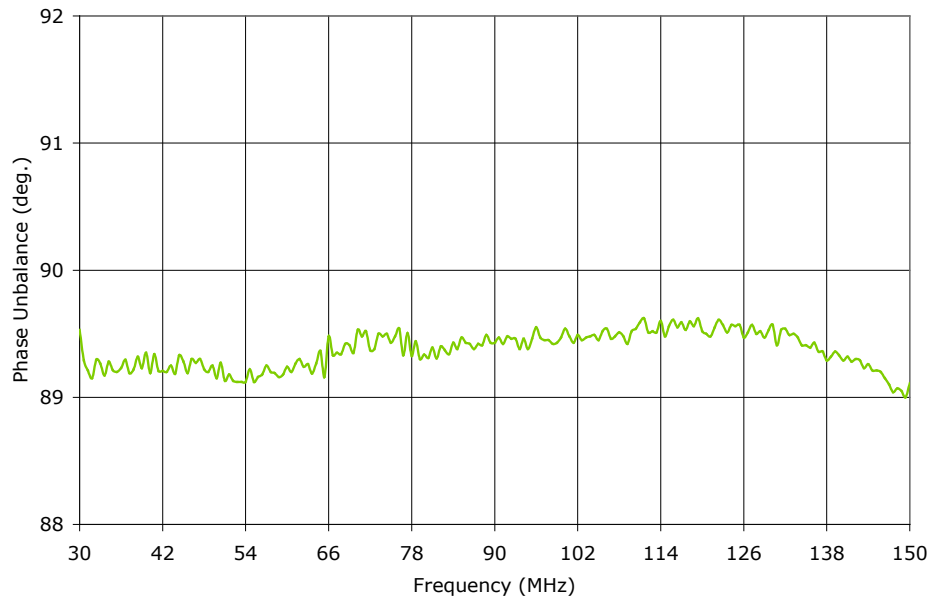
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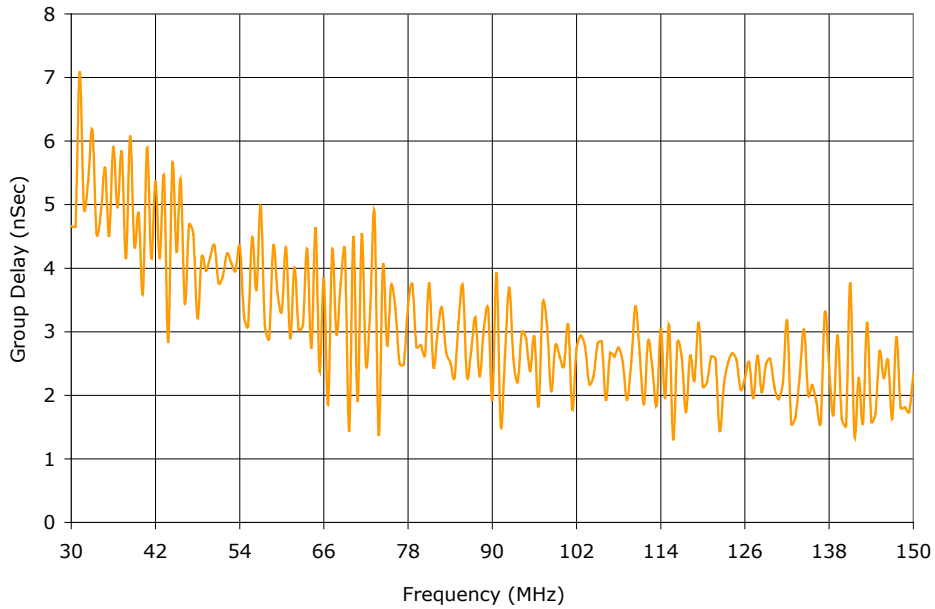
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