

90° HYBRID

SURFACE MOUNT MODEL: DQS-20-100

FREQUENCY BANDWIDTH

20 - 100 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 02/15/08)

Frequency	20 - 100 MHz	
Insertion Loss (dB) *	Typ.	Max.
	0.6	1.0
Amplitude Unbalance (dB)	Typ.	Max.
	0.5	0.8
Phase Unbalance (Deg.)	Typ.	Max.
	1.5	3.0
Isolation (dB)	Typ.	Min.
	27	20
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.2:1 (Typ.)	
Operating Temperature Range	-40 to +85 °C	

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

Package # 120S	
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BOTTOM VIEW

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.



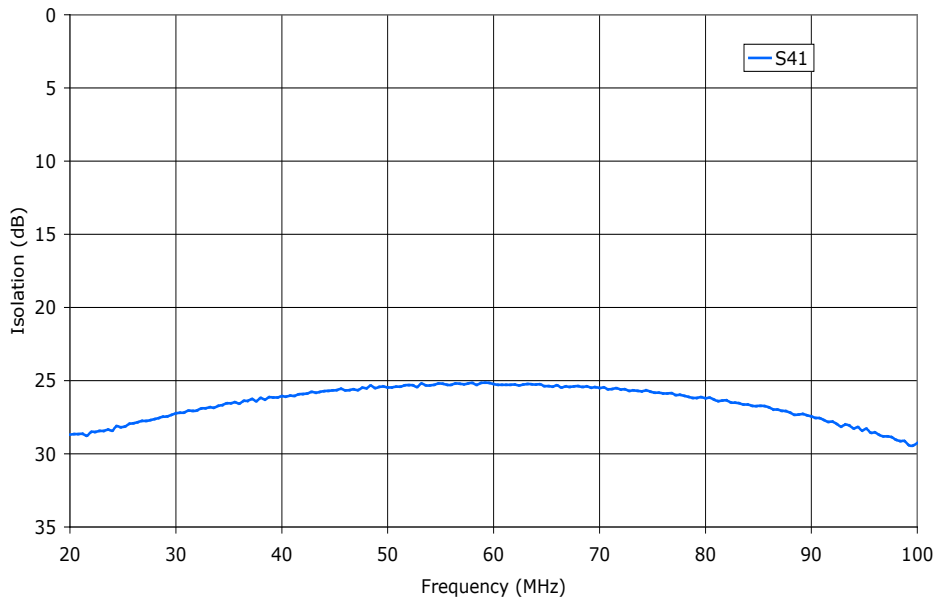
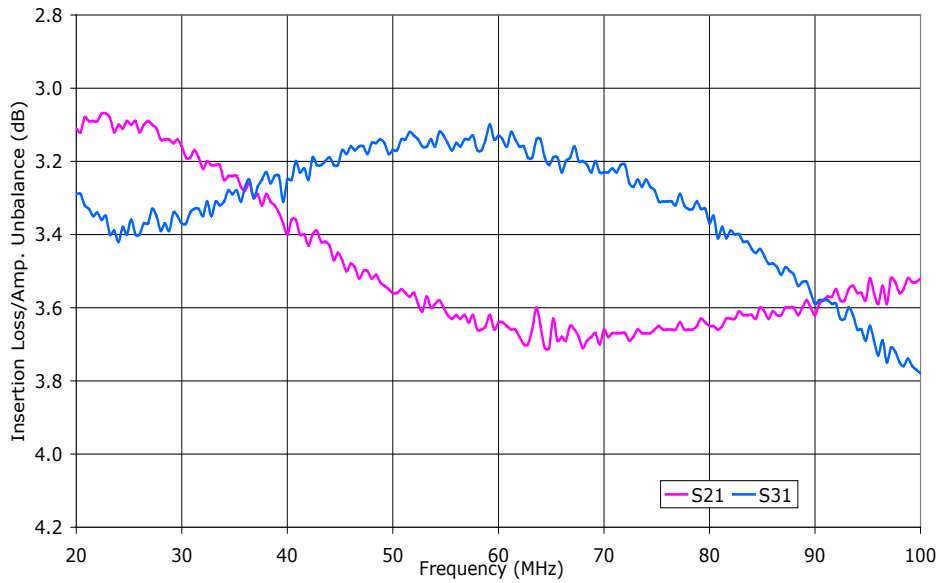
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Data @ 25°C



PERFORMANCE PLOTS

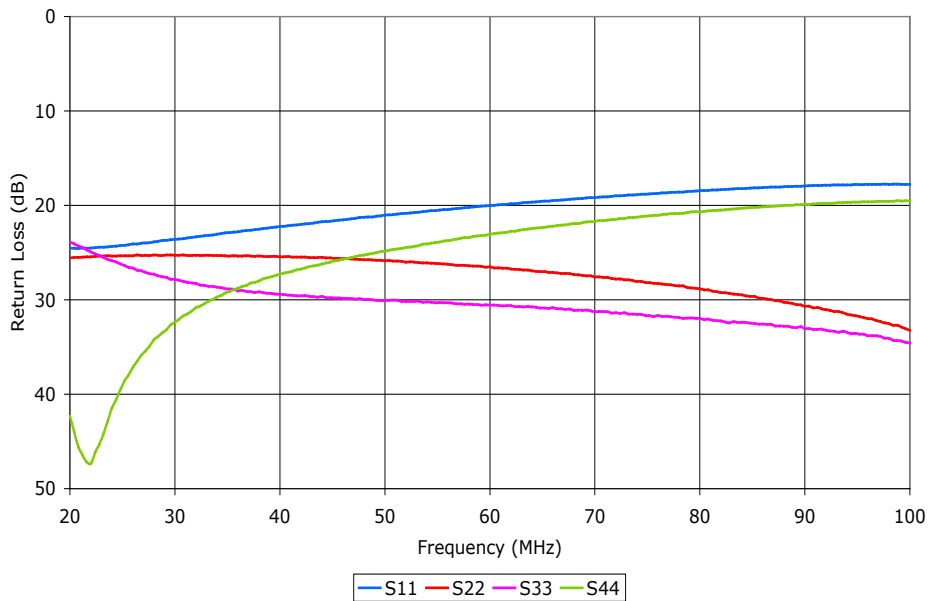
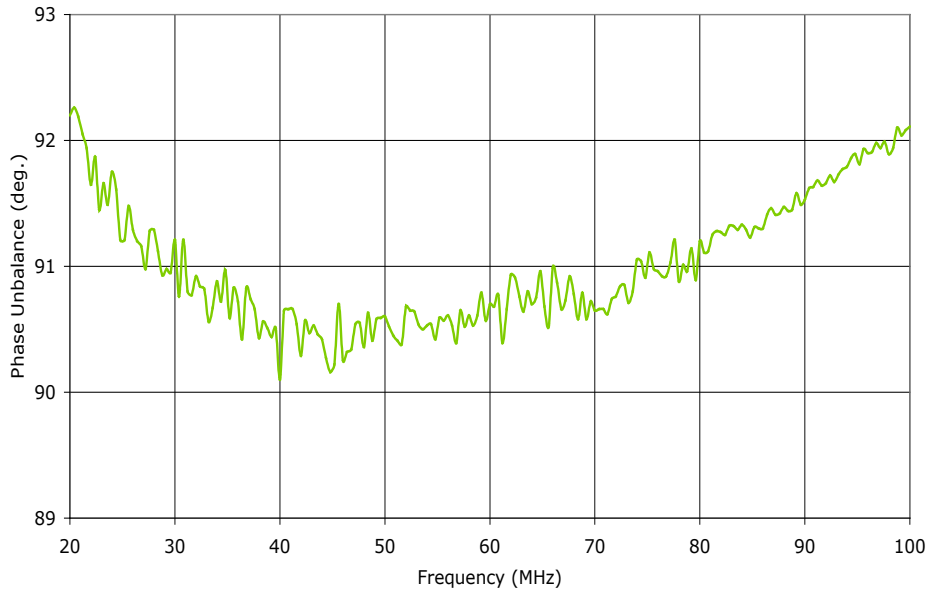
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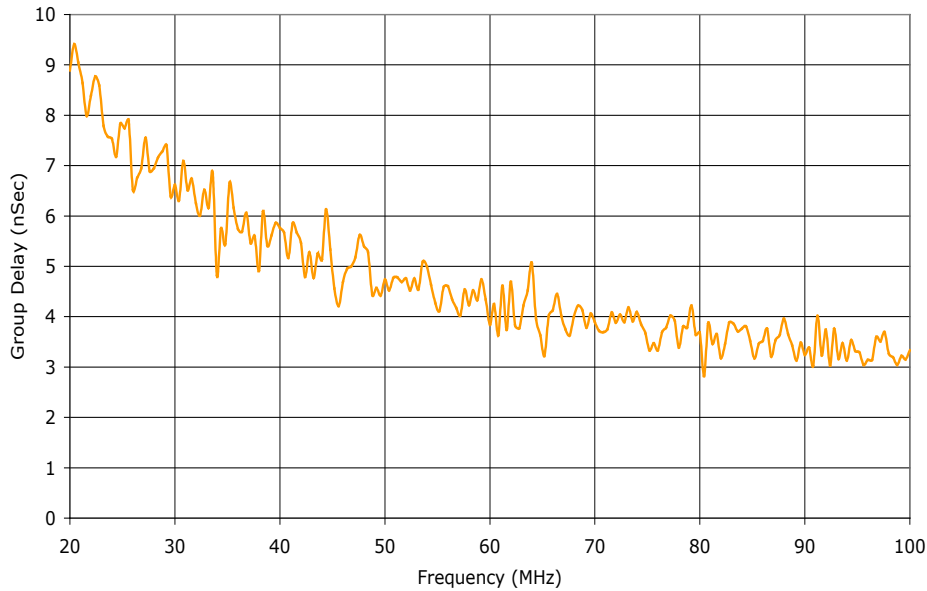
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