

# 90° HYBRID

## SURFACE MOUNT MODEL: DQS-10-100

**FREQUENCY BANDWIDTH**

**10 - 100 MHz**

**FEATURES:**

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



**SPECIFICATIONS (Rev. C 10/19/07)**

<b>Frequency</b>	10 - 100 MHz	
<b>Insertion Loss (dB) *</b>	Typ.	Max.
	1.0	1.5
<b>Amplitude Unbalance (dB)</b>	Typ.	Max.
	0.9	1.2
<b>Phase Unbalance (Deg.)</b>	Typ.	Max.
	2.0	3.0
<b>Isolation (dB)</b>	Typ.	Min.
	30	20
<b>Power Rating</b>	1 Watt (Max.)	
<b>Impedance</b>	50 Ohms (Nom.)	
<b>VSWR</b>	1.2:1 (Typ.)	
<b>Operating Temperature Range</b>	-40 to +85 °C	
* Insertion loss in excess of the theoretical 3 dB coupling.		

<b>Package #</b>	<b>120S</b>
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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.

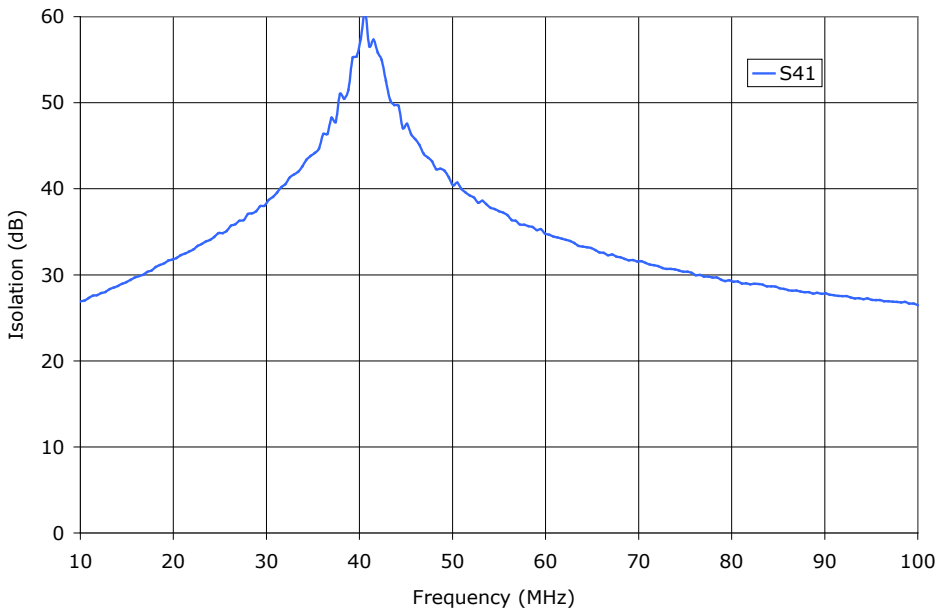
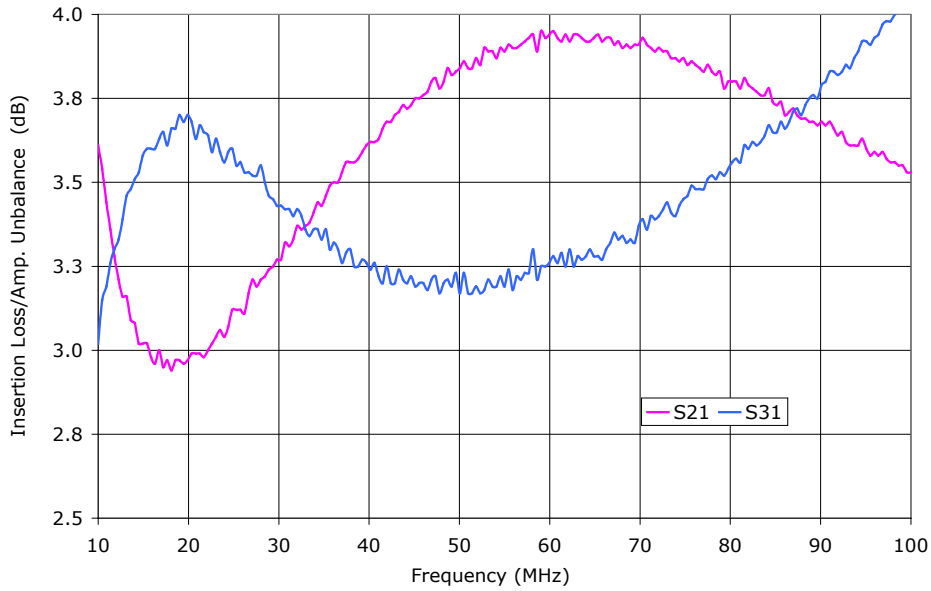
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Data @ 25°C



PERFORMANCE PLOTS

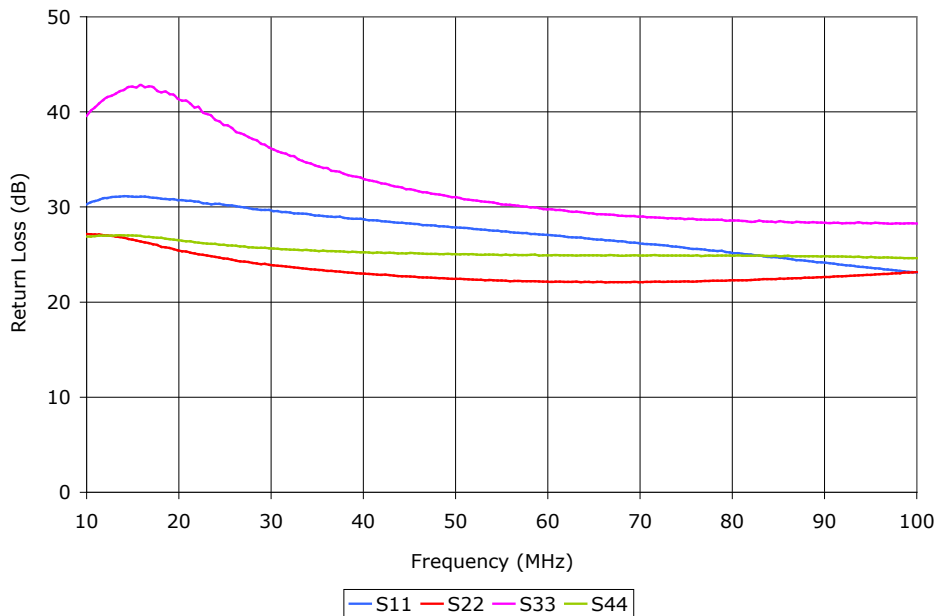
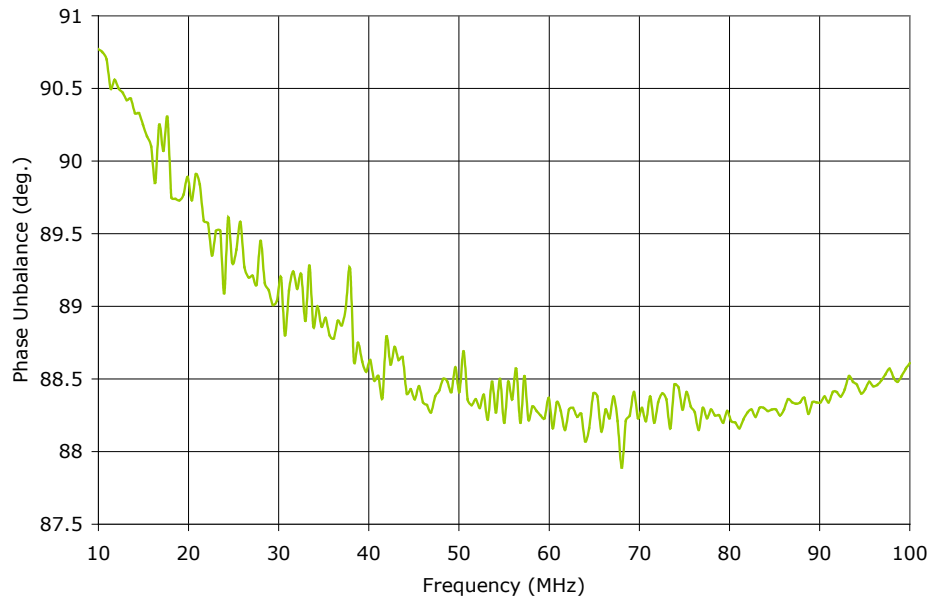
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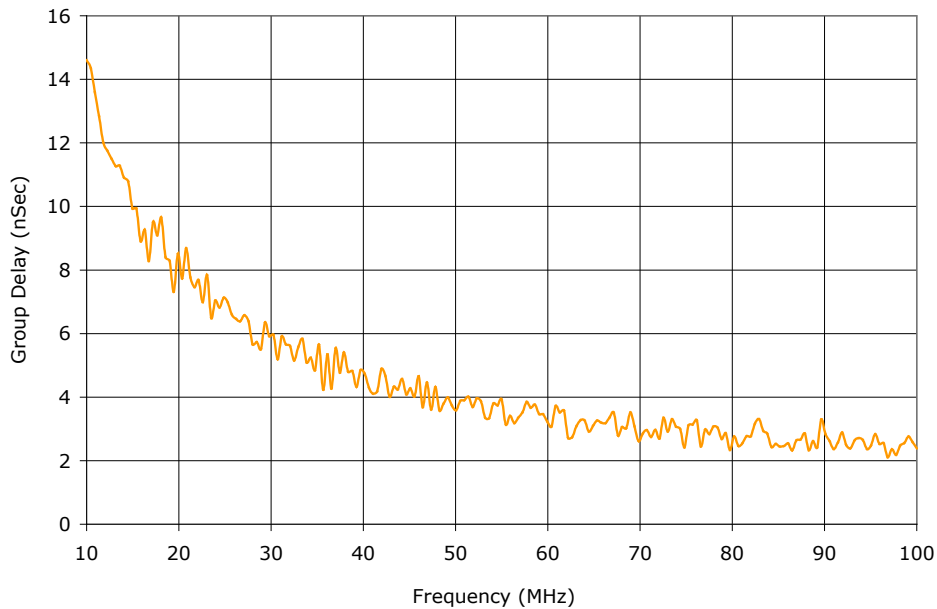
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