

90° HYBRID

SURFACE MOUNT MODEL: DQS-30-500

FREQUENCY BANDWIDTH

30 - 500 MHz

FEATURES:

- ▶ Ultra-Wide Bandwidth (>16:1)
- ▶ Small Package Size
- ▶ Building Block For:
 - Power Amplifiers
 - Image Rejection Mixers
 - I & Q / SSB Modulators
 - Phase Shifters & More...



SPECIFICATIONS

Frequency	30 - 500 MHz	
Insertion Loss (dB)¹	Typ. 1.3	Max. 1.8
Amplitude Unbalance (dB)	Typ. 1.2	Max. 1.6
Phase Unbalance (Deg.)	Typ. ± 3	Max. ± 6
Isolation (dB)	Typ. 22	Min. 15
Power Rating	10 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.4:1 (Typ)	
Operating Temperature Range	-55 to +85 °C	

¹ Insertion loss in excess of the theoretical 3 dB coupling.

Package #	102S
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BOTTOM VIEW

LAYOUT FOR PRINTED
CIRCUIT DESIGN

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

*Terminate isolated port with 50 Ohms externally.
** Ground externally.

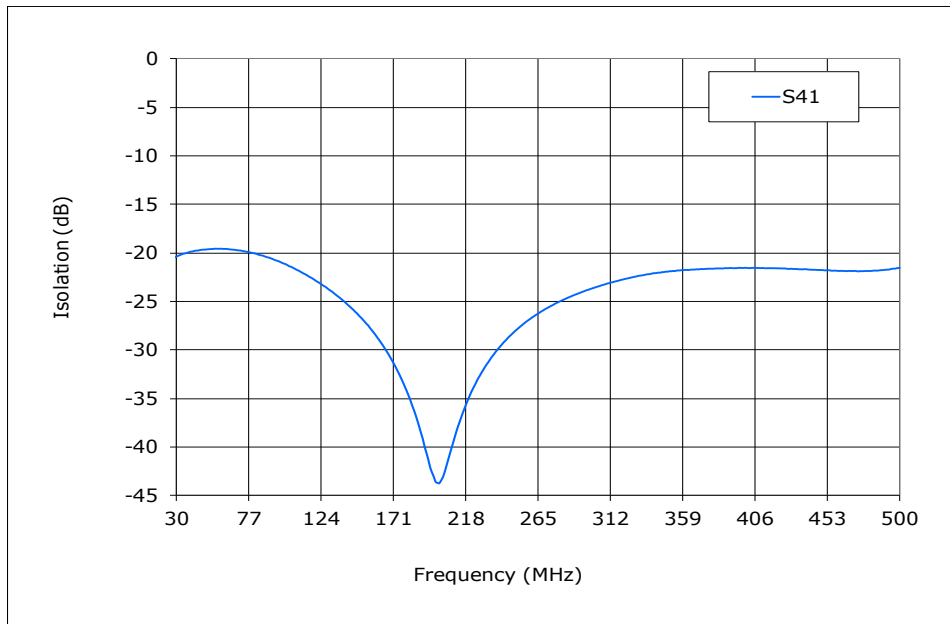
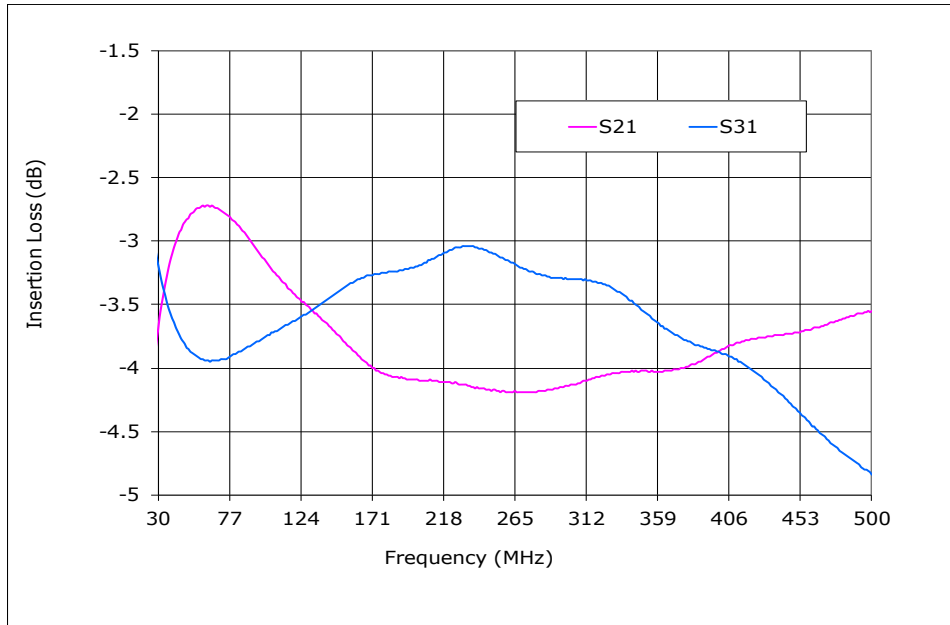
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Data @ 25°C



PERFORMANCE PLOTS

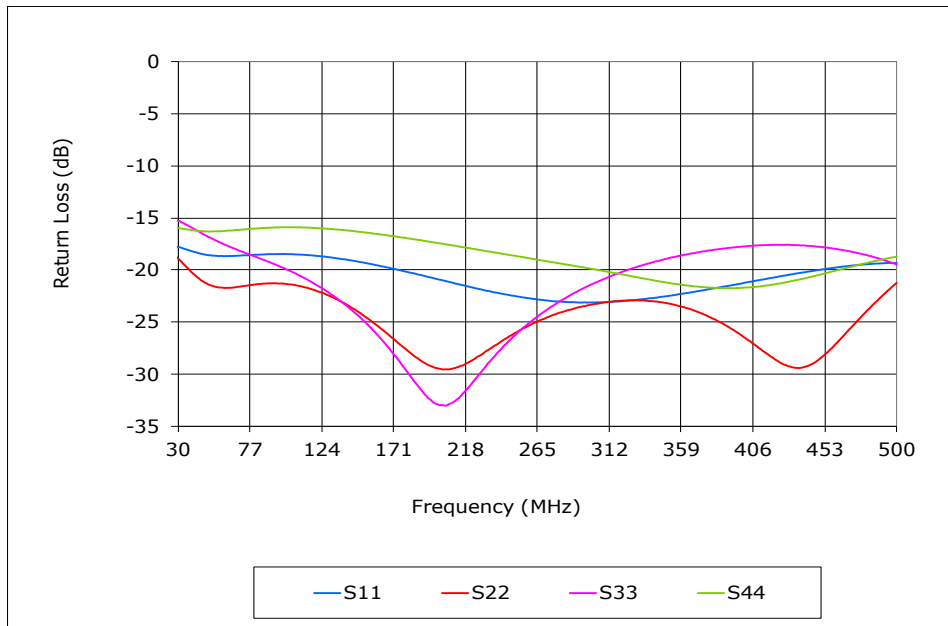
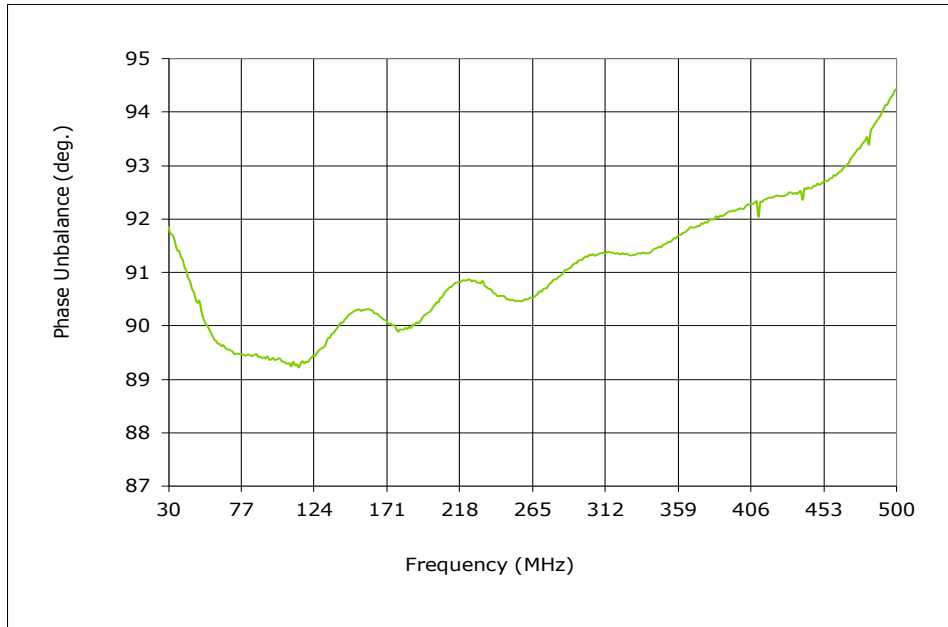
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