

90° HYBRID

CONNECTORIZED MODEL: DQK-100-1000S

FREQUENCY BANDWIDTH

100 - 1000 MHz

FEATURES:

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



SPECIFICATIONS (Rev. A 08/25/11)

Frequency	100 - 1000 MHz	
Insertion Loss (dB) *	Typ.	Max.
	1.5	2.3
Amplitude Unbalance (dB)	Typ.	Max.
	0.8	1.8
Phase Unbalance (Deg.)	Typ.	Max.
	± 6	± 10
Isolation (dB)	Typ.	Min.
	23	16
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.6:1 (Typ)	
Operating Temperature Range	-40 to +85 °C	

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

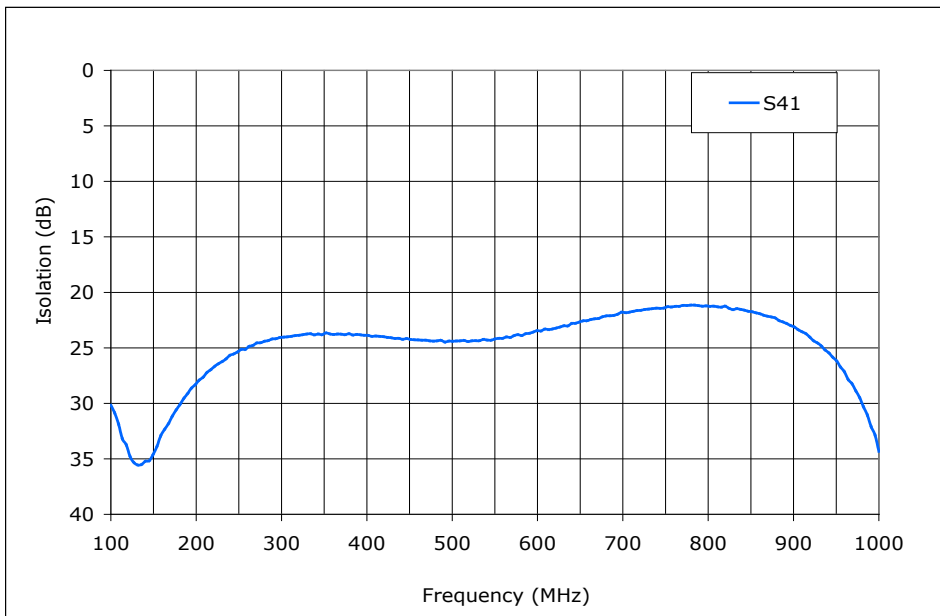
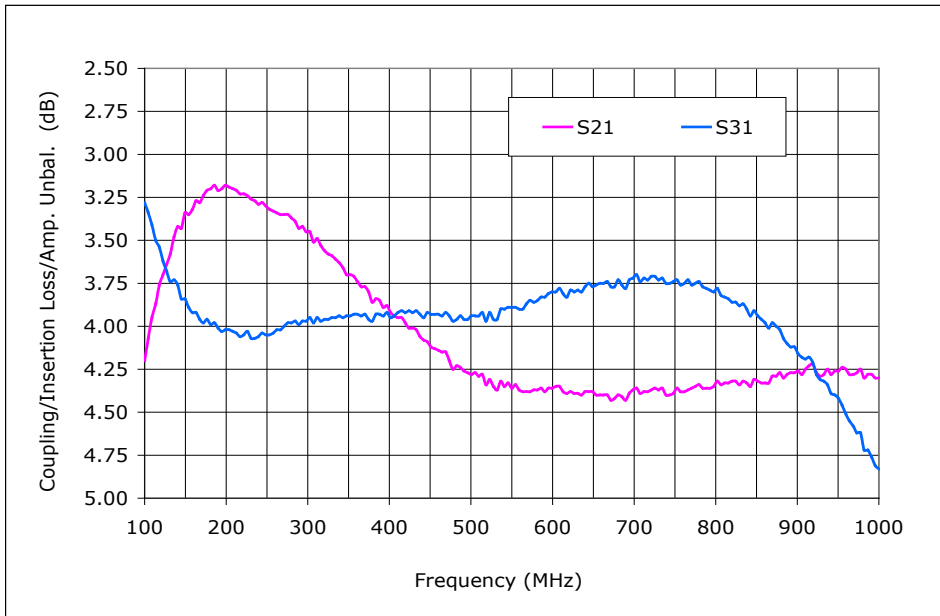
<p>Frequency</p> <p>Insertion Loss (dB) *</p> <p>Amplitude Unbalance (dB)</p> <p>Phase Unbalance (Deg.)</p> <p>Isolation (dB)</p> <p>Power Rating</p> <p>Impedance</p> <p>VSWR</p> <p>Operating Temperature Range</p>	<p>Package # 113LF</p> <p style="text-align: center;">All Dimensions in inches (mm)</p> <p style="text-align: center;">Tolerances: 2 PL.±0.030 inch. (0.762mm) 3 PL.±0.015 inch. (0.381mm)</p> <p style="text-align: right;"> A - 1.250 inch. (31.75 mm) B - 1.250 inch. (31.75 mm) C - 0.750 inch. (19.05 mm) D - 0.375 inch. (9.525 mm) E - 1.000 inch. (25.4 mm) F - 1.000 inch. (25.4 mm) G - Ø0.136 inch. (3.45 mm) H - 0.625 inch. (15.875 mm) I - 0.625 inch. (15.875 mm) </p> <p>Connector Type: SMA Female</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">PORT IDENTIFICATION</th> </tr> <tr> <th>Input</th> <th>Isolated *</th> <th>+90° Output</th> <th>0° Output</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </tbody> </table> <p>* Terminate ISOLATED port with 50 ohms externally.</p>	PORT IDENTIFICATION				Input	Isolated *	+90° Output	0° Output	1	2	3	4
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PERFORMANCE PLOTS

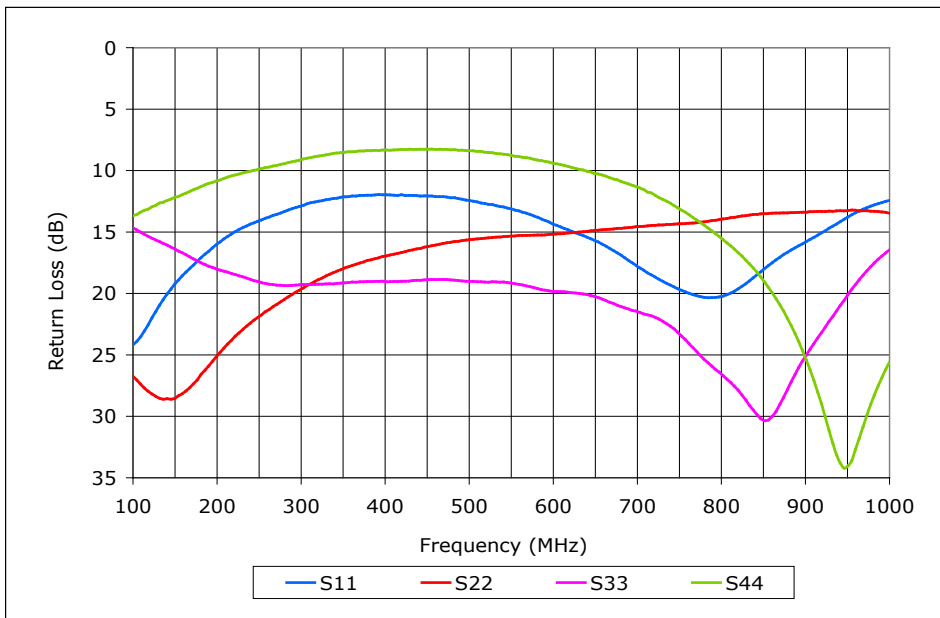
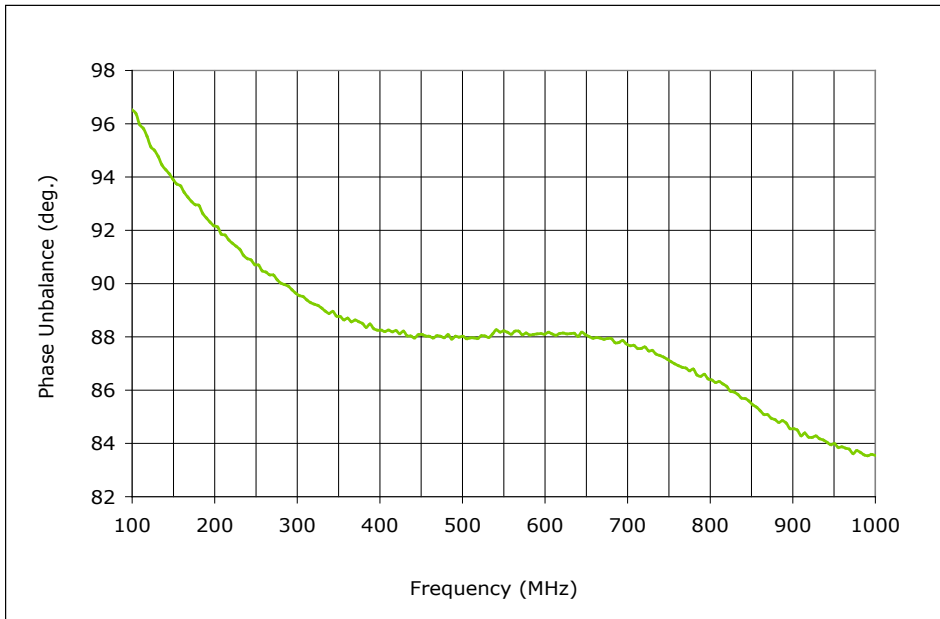
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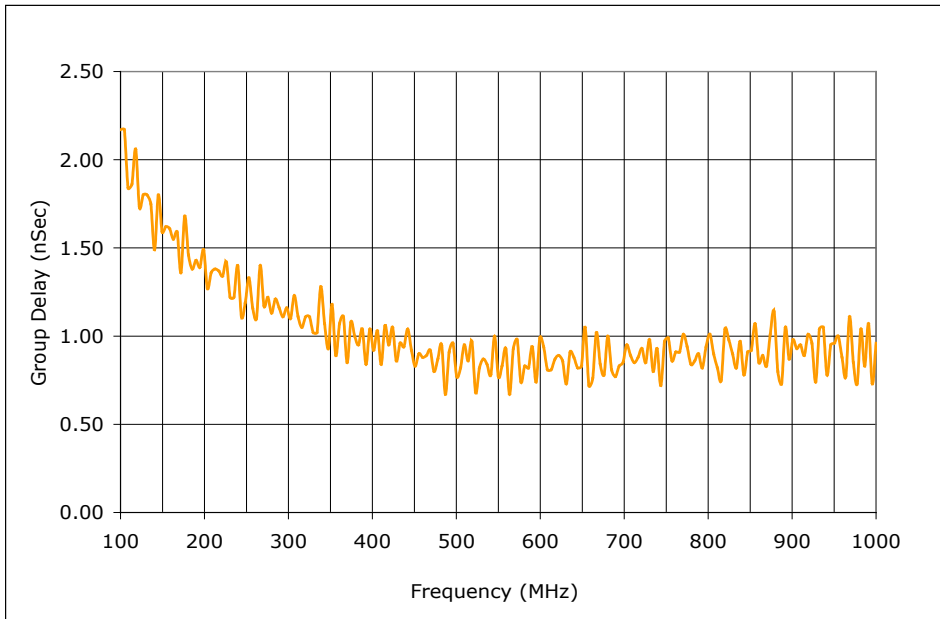
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