

QUADRATURE HYBRID

SURFACE MOUNT MODEL: DQS-10-50

5:1 BANDWIDTH

10 - 50 MHz

FEATURES:

- ▶ 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. A 06/26/25)

Frequency	10 - 50 MHz	
Insertion Loss (dB)	1.0 (Max.)	
Amplitude Unbalance (dB)	0.8 (Max.)	
Phase Unbalance (Deg.)	3.0 (Max.)	
Isolation (dB)	Typ.	Min.
	30	20
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.2:1 (Typ.)	
Operating Temperature Range	-20 to +70 °C	

Package #	102SLF		
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TOP VIEW

SIDE VIEW

TOLERANCES ON THREE DECIMAL PLACES= ± 0.010

BOTTOM VIEW

LAYOUT FOT PRINTED
CIRCUIT DESIGN

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

* Terminate ISOLATED port with 50 Ohms.

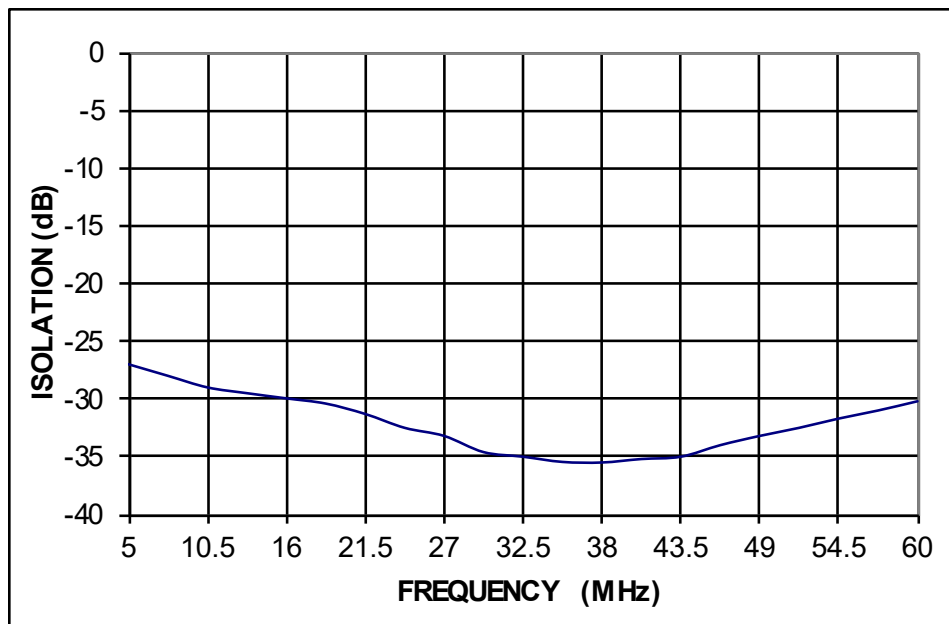
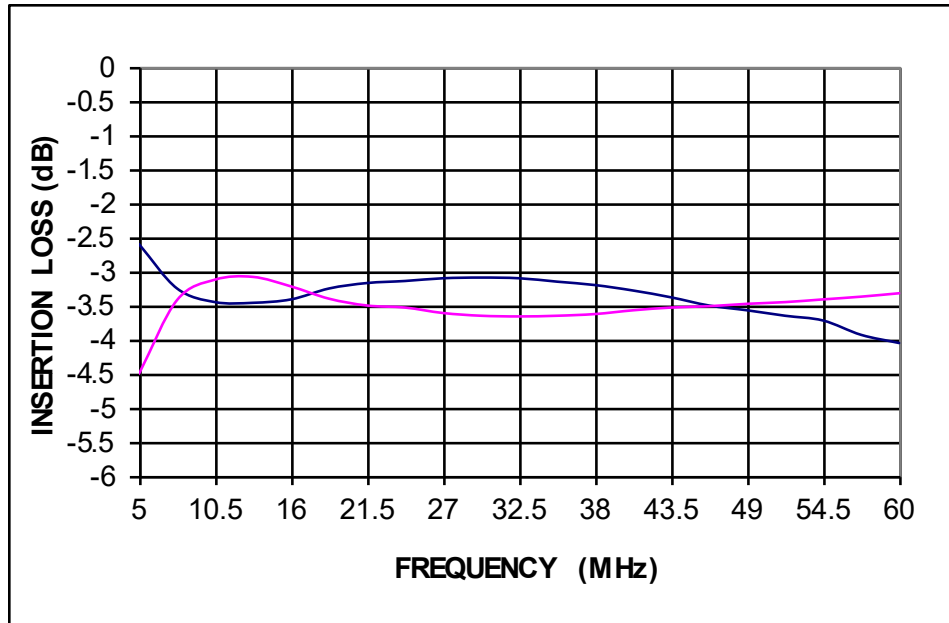
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Data @ 25°C



PERFORMANCE PLOTS

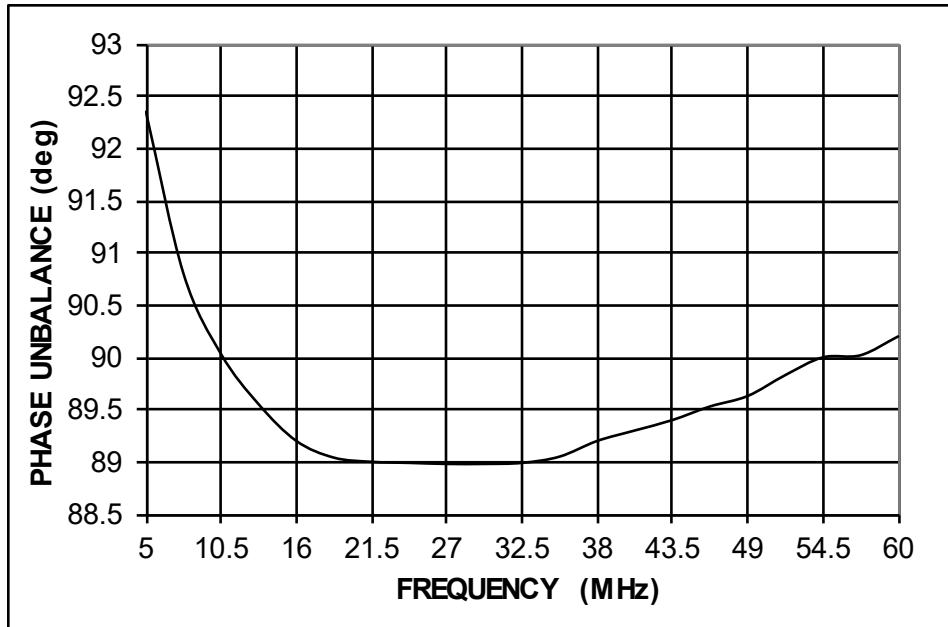
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