

# 90° HYBRID

## SURFACE MOUNT MODEL: DQS-30-750-1

**WIDE BANDWIDTH**

**30 - 520 MHz**

**FEATURES:**

- ▶ Ultra-Wide Bandwidth (>17:1)
- ▶ Small Size Surface Mount
- ▶ Building Block For:
  - Power Amplifiers
  - Image Reject Mixers
  - I & Q / SSB Modulators
  - Phase Shifters & More...



**SPECIFICATIONS (Rev. A 06/26/25)**

Frequency	30 - 520 MHz	
Insertion Loss (dB)	Typ.	Max.
	1.8	2.5
Amplitude Unbalance (dB)	Typ.	Max.
	±0.8	±1.3
Phase Unbalance (Deg.)	Typ.	Max.
	±5.0	±10.0
Isolation (dB)	Typ.	Min.
	18	13
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.5:1 (Typ.)	
Operating Temperature Range	-40 to +85°C	
Storage Temperature Range	-55 to +100°C	

Package #	102SLF			
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TOP VIEW

SIDE VIEW

TOLERANCES ON THREE DECIMAL PLACES = ± 0.010

LAYOUT FOR PRINTED CIRCUIT DESIGN

PORT CONFIGURATION				
Input	Isolated*	+90° Output*	0° Output	GND**
1	2	8	7	3,4,5,6

\*Terminate ISOLATED port in 50 Ohms EXTERNALLY.  
\*\*Ground Externally

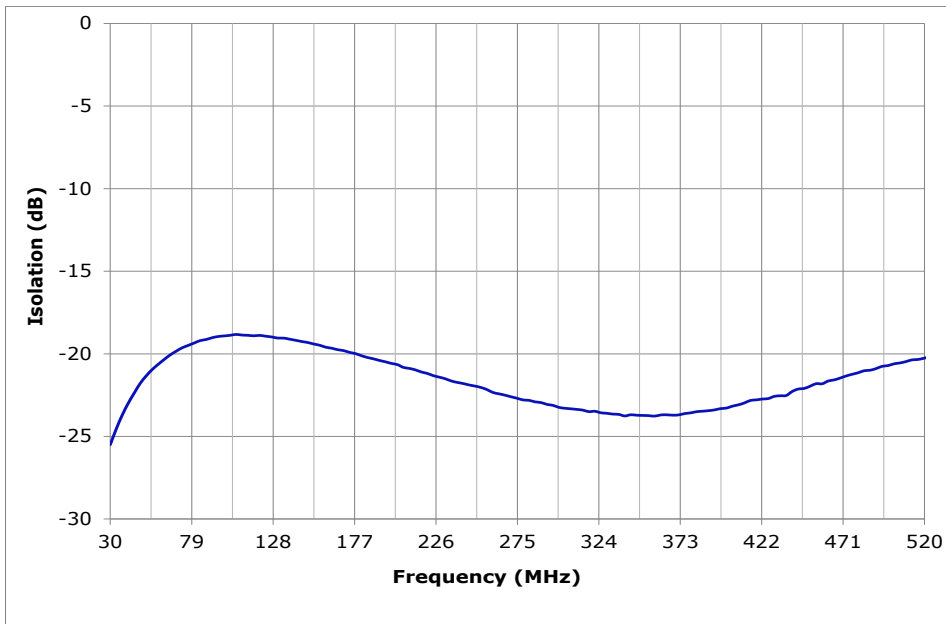
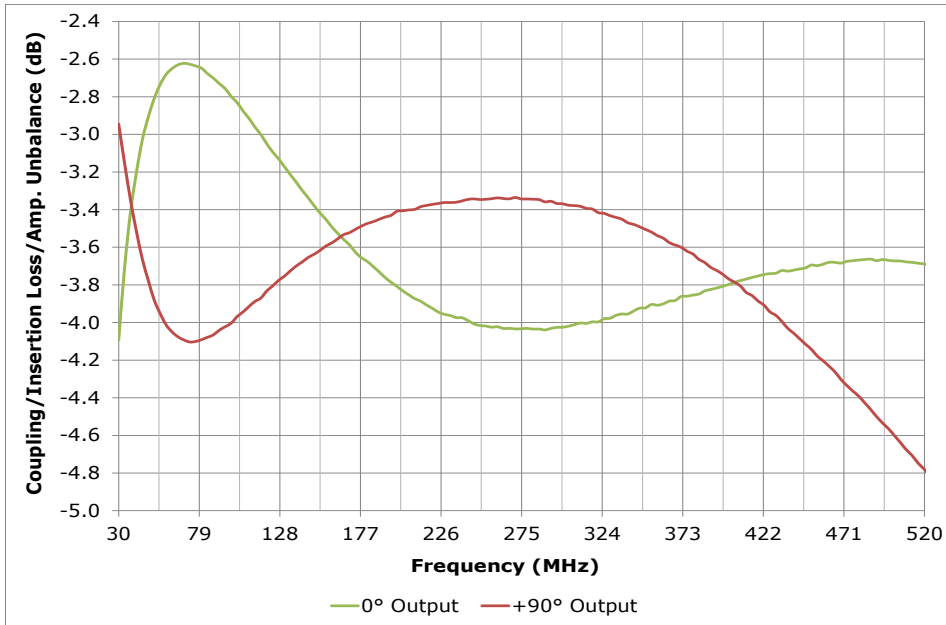
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Data @ 25°C



PERFORMANCE PLOTS

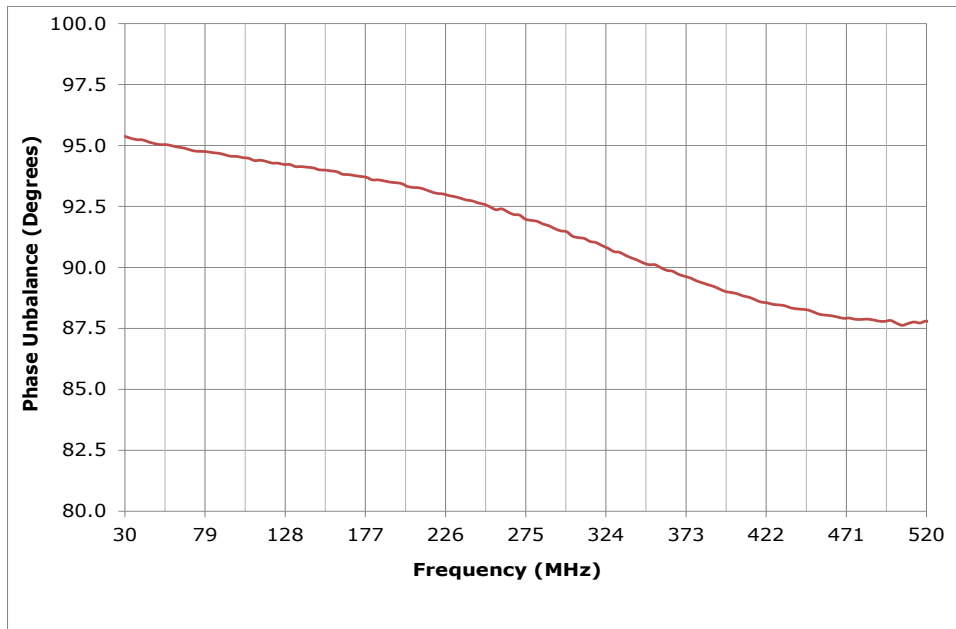
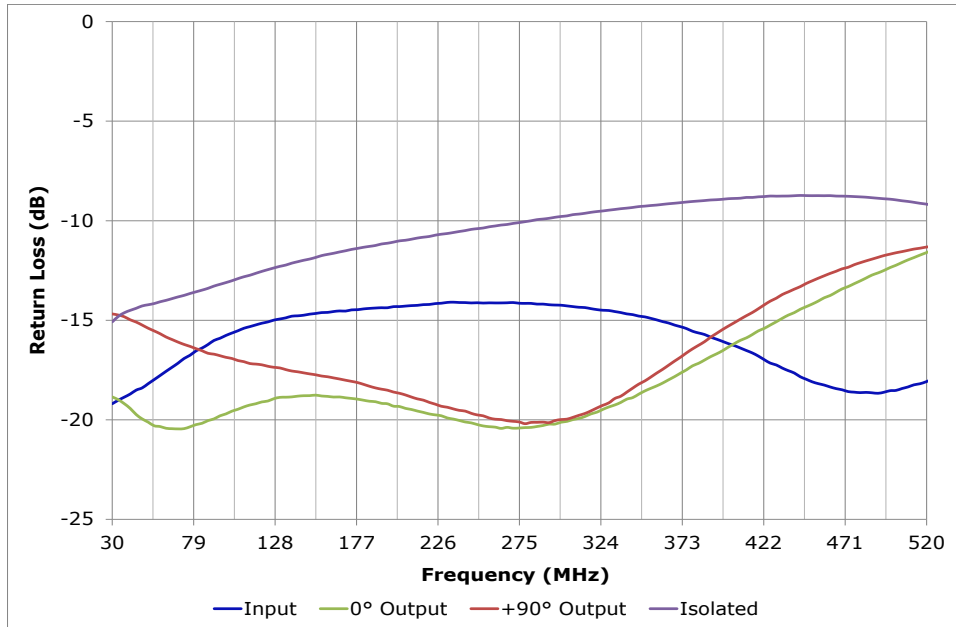
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