

90° HYBRID

SURFACE MOUNT MODEL: DQS-90-450

WIDE BANDWIDTH

90 - 450 MHz

FEATURES:

- ▶ Ultra-Wide Bandwidth (5:1)
- ▶ Small Package Size
- ▶ Building Block For:
 - Amplifiers
 - Image Rejection Mixers
 - I & Q / SSB Modulators
 - Phase Shifters & More...



SPECIFICATIONS (Rev. C 06/26/25)

Frequency	90 - 450 MHz	
Insertion Loss (dB)	Typ.	Max.
	1.2	1.5
Amplitude Unbalance (dB)	Typ.	Max.
	0.7	1.25
Phase Unbalance (Deg.)	Typ.	Max.
	3.0	5.0
Isolation (dB)	Typ.	Min.
	23	16
Power Rating	1 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.4:1 (Max.)	
Operating Temperature Range	-20 to +70°C	

Package #	102SLF
-----------	--------

TOP VIEW

SIDE VIEW

TOLERANCES ON THREE DECIMAL PLACES = ± 0.010

BOTTOM VIEW

LAYOUT FOR PRINTED CIRCUIT DESIGN

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

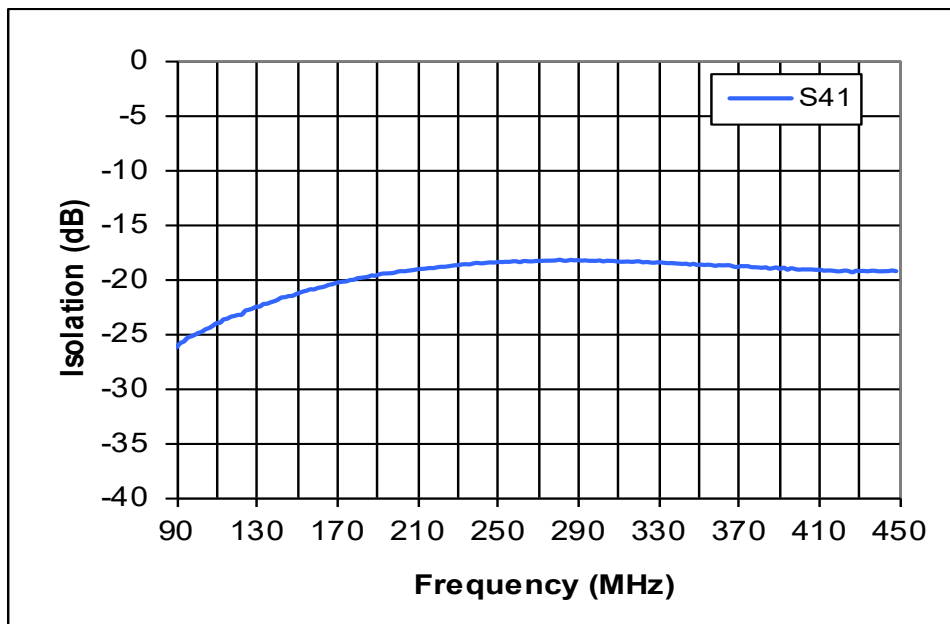
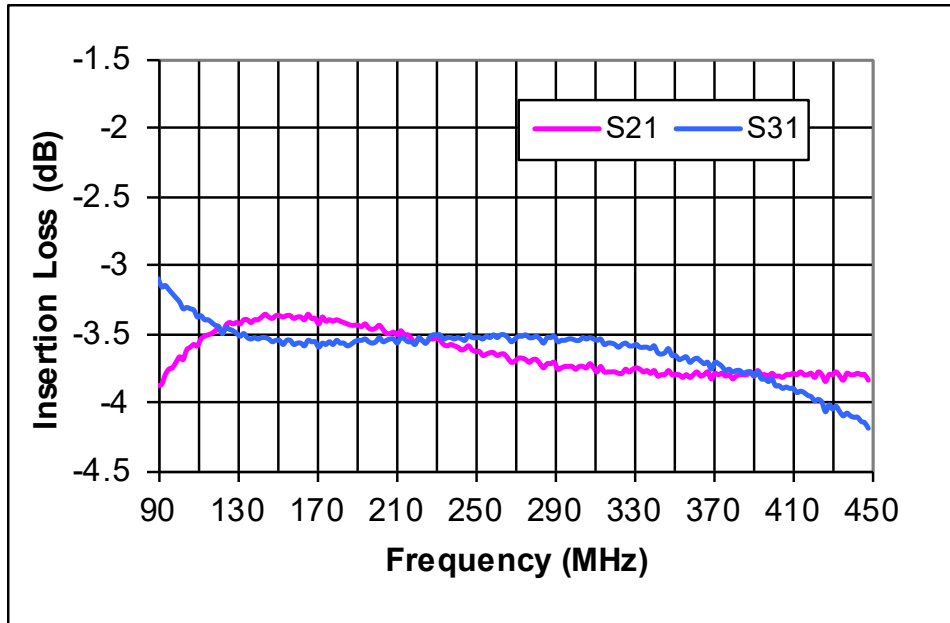
90° HYBRID

SURFACE MOUNT MODEL: DQS-90-450

WIDE BANDWIDTH

90 - 450 MHz

Data @ 25°C



PERFORMANCE PLOTS

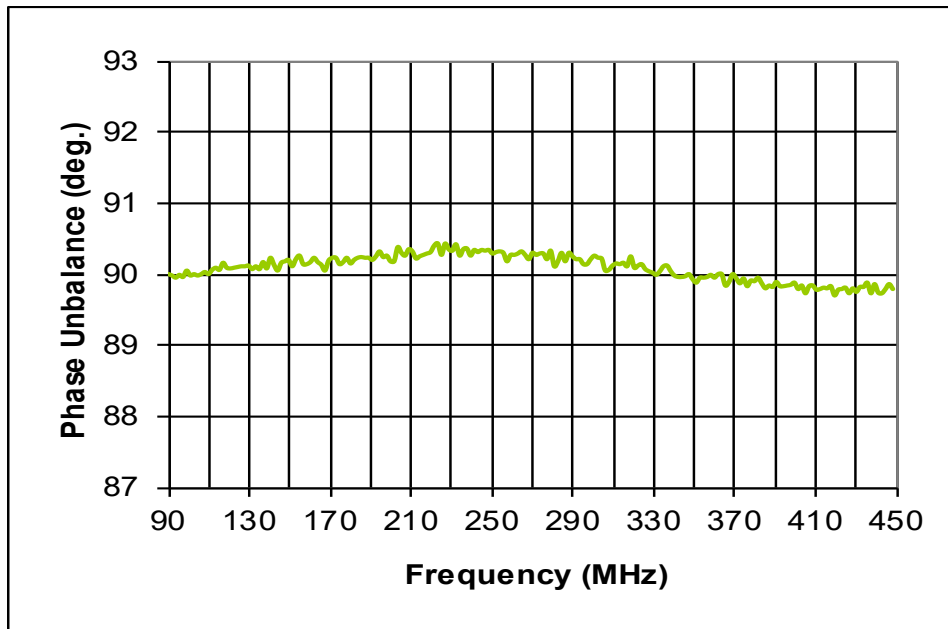
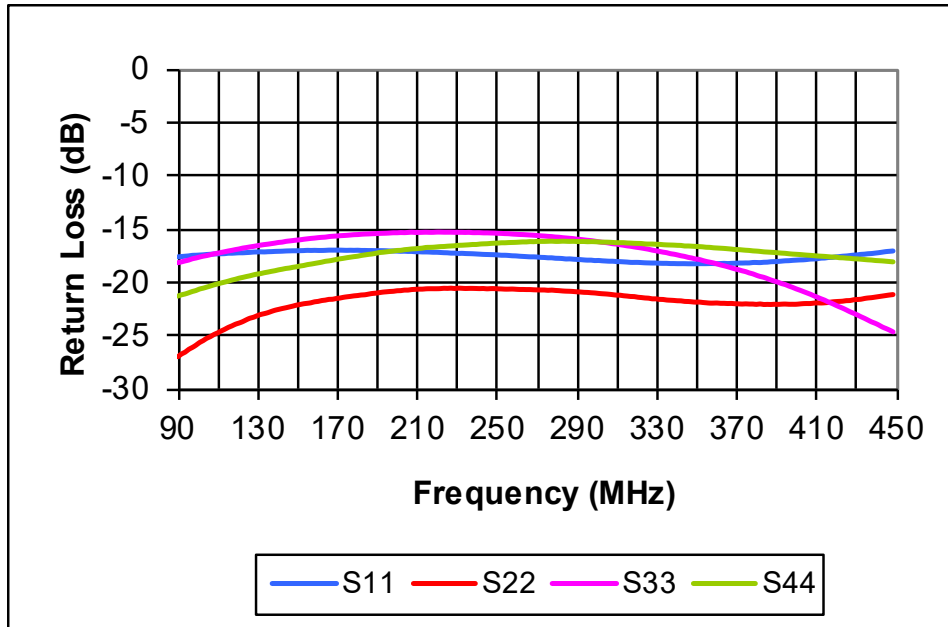
90° HYBRID

SURFACE MOUNT MODEL: DQS-90-450

WIDE BANDWIDTH

90 - 450 MHz

Data @ 25°C



PERFORMANCE PLOTS

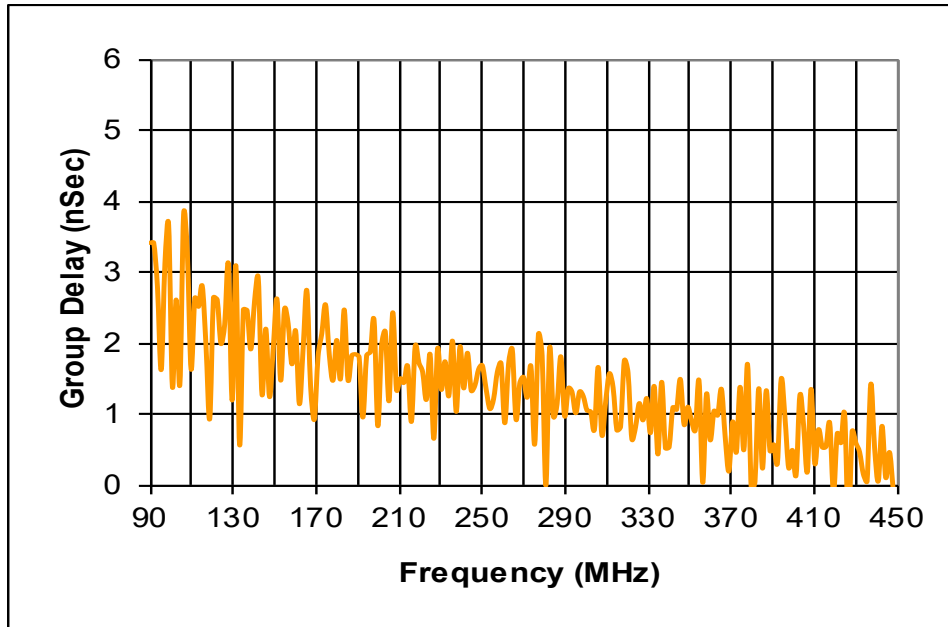
90° HYBRID

SURFACE MOUNT MODEL: DQS-90-450

WIDE BANDWIDTH

90 - 450 MHz

Data @ 25°C



PERFORMANCE PLOTS