

90° HYBRID

SURFACE MOUNT MODEL: DQS-30-450

FREQUENCY BANDWIDTH

30 - 450 MHz

FEATURES:

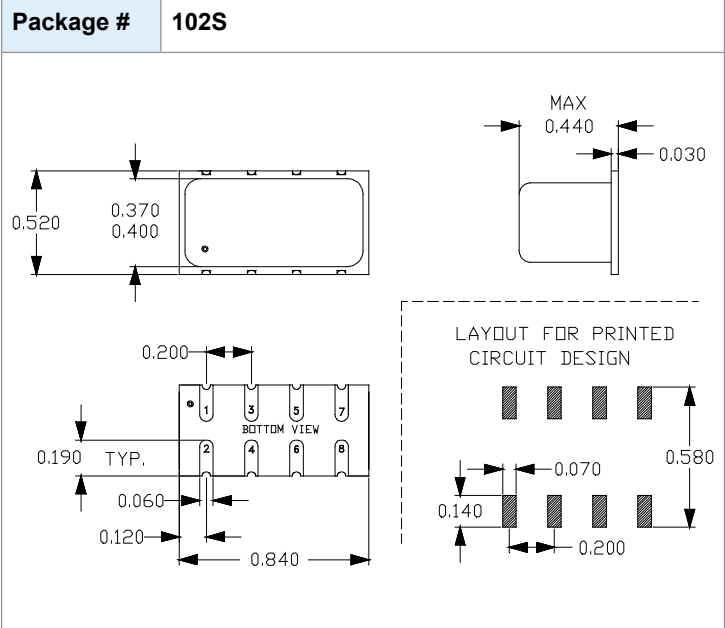
- ▶ Ultra-Wide Bandwidth (15:1)
- ▶ Small Package Size, Surface Mount
- ▶ Building Block For:
 - Power Amplifiers
 - Image Rejection Mixers
 - I & Q / SSB Modulators
 - Phase Shifters & More...



SPECIFICATIONS (Rev. C 02/10/15)

Frequency	30 - 450 MHz	
Insertion Loss (dB) *	Typ.	Max.
	1.2	1.7
Amplitude Unbalance (dB)	Typ.	Max.
	1	1.5
Phase Unbalance (Deg.)	Typ.	Max.
	± 2°	± 3°
Isolation (dB)	Typ.	Min.
	23	18
Power Rating	5 Watt (Max.)	
Impedance	50 Ohms (Nom.)	
VSWR	1.4:1 (Typ.)	
Operating Temperature Range	-40 to +85 °C	

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



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

* Terminate isolated port in 50 Ohms externally.

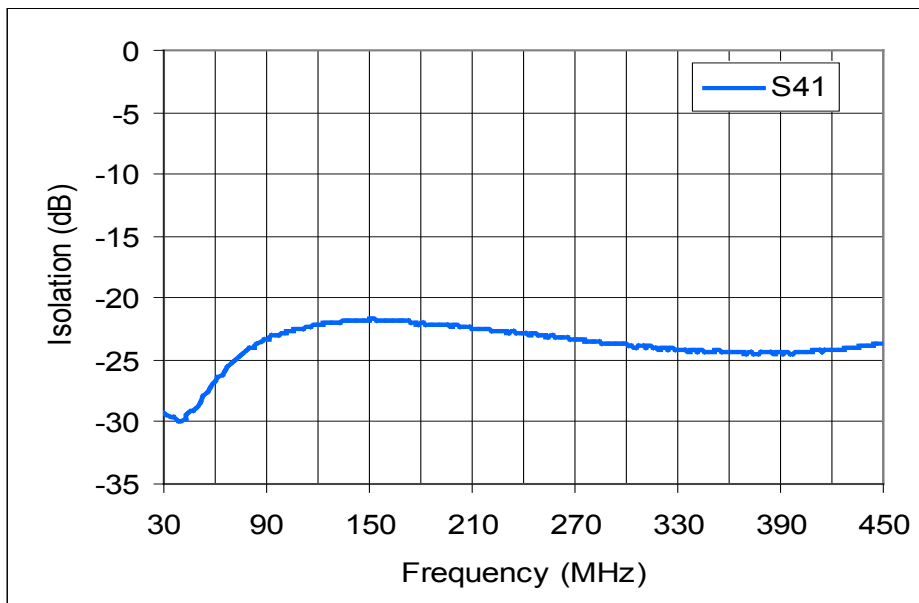
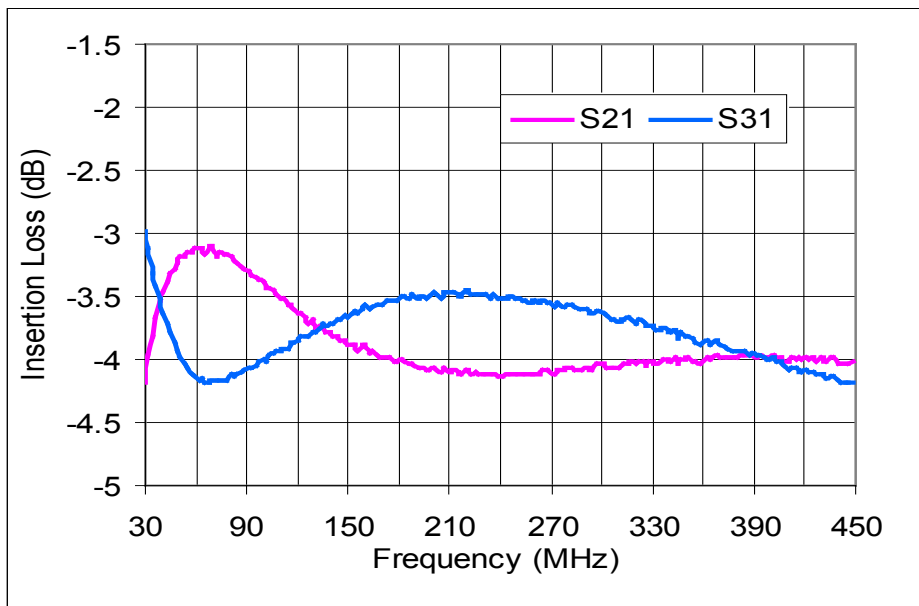
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Data @ 25°C



PERFORMANCE PLOTS

90° HYBRID

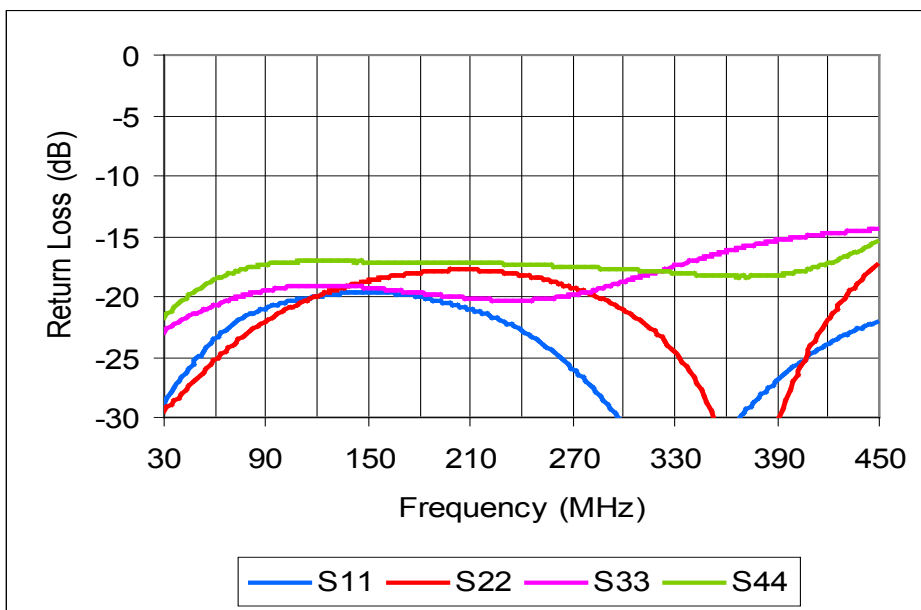
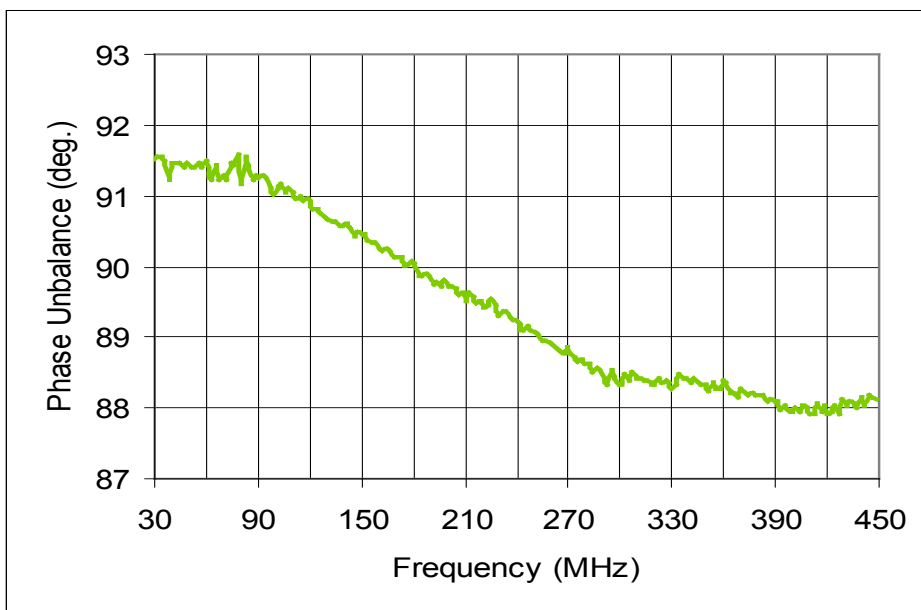
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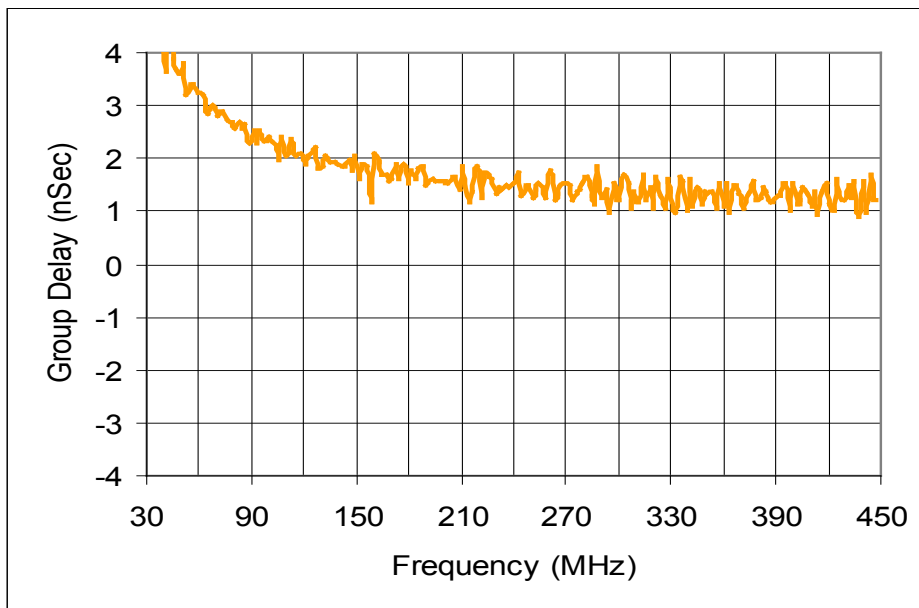
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