

90° HYBRID

SURFACE MOUNT MODEL: DQS-108-400

WIDE BANDWIDTH

100 - 400 MHz

FEATURES:

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



SPECIFICATIONS

| | | |
|-----------------------------|----------------|------|
| Frequency | 100 - 400 MHz | |
| Insertion Loss (dB) * | Typ. | Max. |
| | 0.6 | 1.0 |
| Amplitude Unbalance (dB) | Typ. | Max. |
| | 0.5 | 0.9 |
| Phase Unbalance (Deg.) | Typ. | Max. |
| | ±2.0 | ±3.0 |
| Isolation (dB) | Typ. | Min. |
| | 25 | 20 |
| Input Power | 10 Watt (Max.) | |
| Impedance | 50 Ohms (Nom.) | |
| VSWR | 1.3:1 (Typ.) | |
| Operating Temperature Range | -40 to +85 °C | |

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

| | |
|-----------|------|
| Package # | 102S |
|-----------|------|

BOTTOM VIEW

LAYOUT FOR PRINTED
CIRCUIT DESIGN

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

* Terminate ISOLATED port with 50 Ohms.

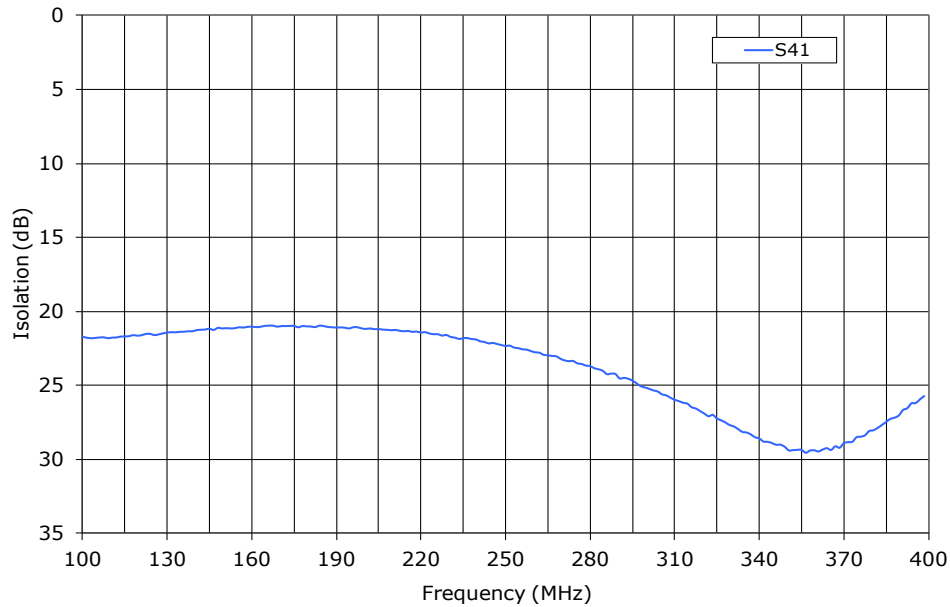
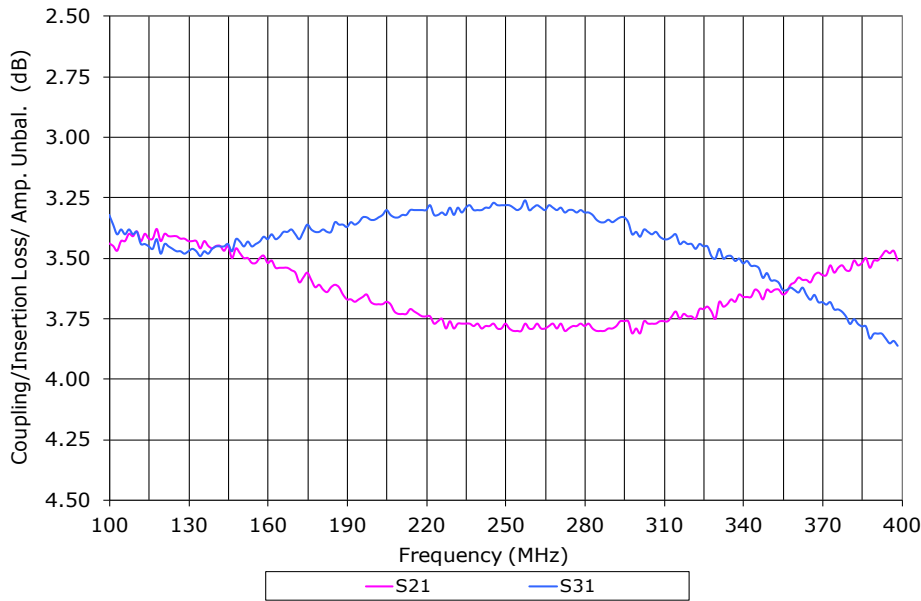
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PERFORMANCE PLOTS

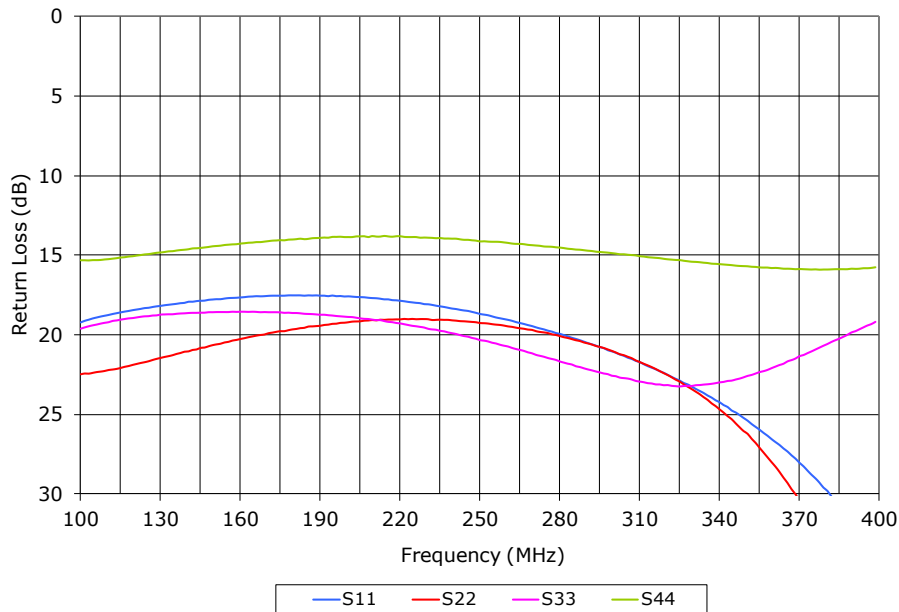
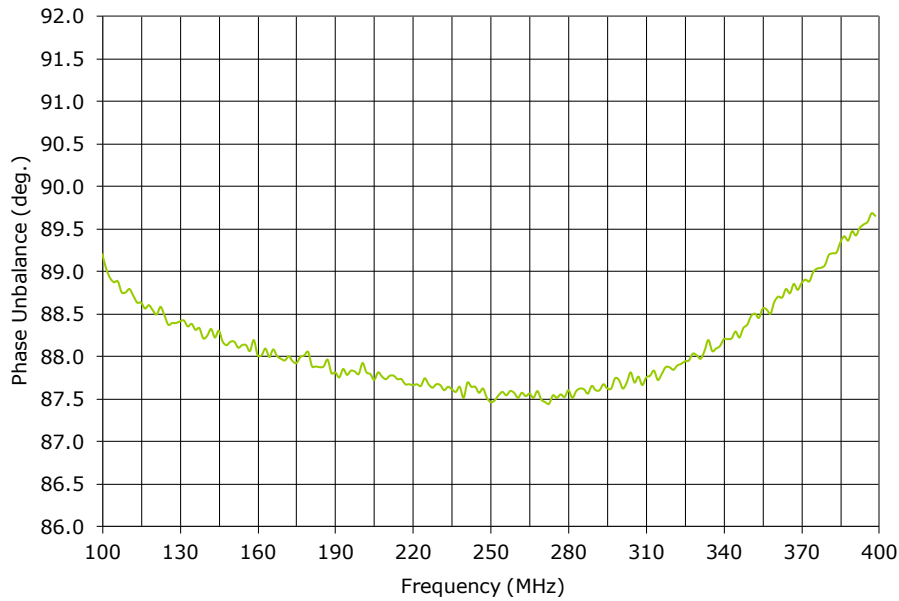
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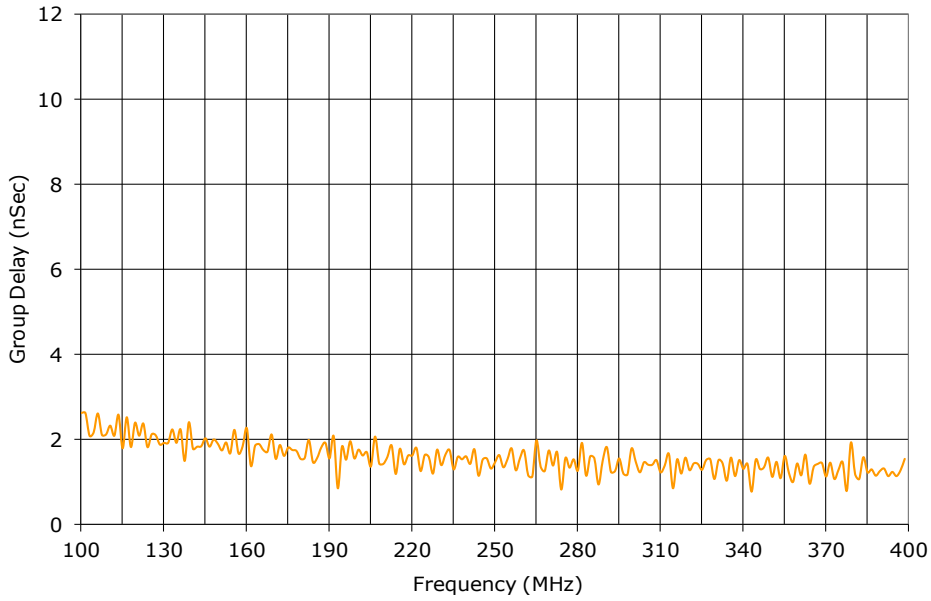
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