

90° HYBRID

SURFACE MOUNT MODEL: DQS-90-450

WIDE BANDWIDTH

90 - 450 MHz

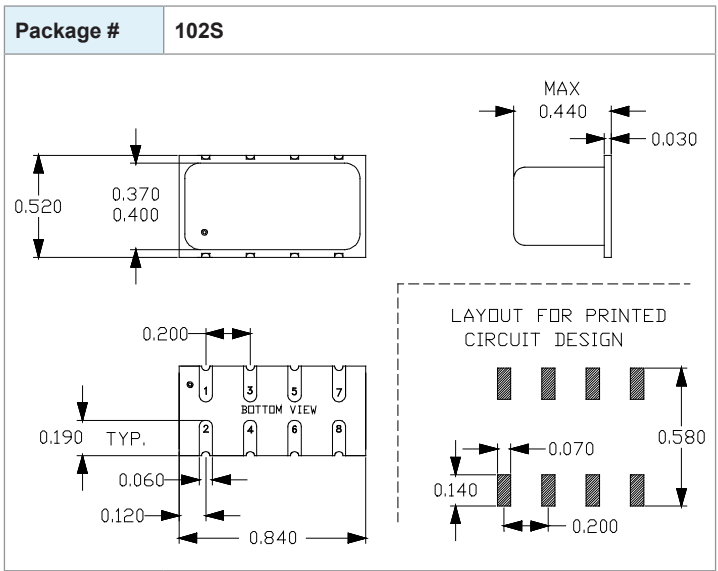
FEATURES:

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



SPECIFICATIONS (Rev. B 03/03/20)

| | | |
|-----------------------------|----------------|------|
| 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 | |



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

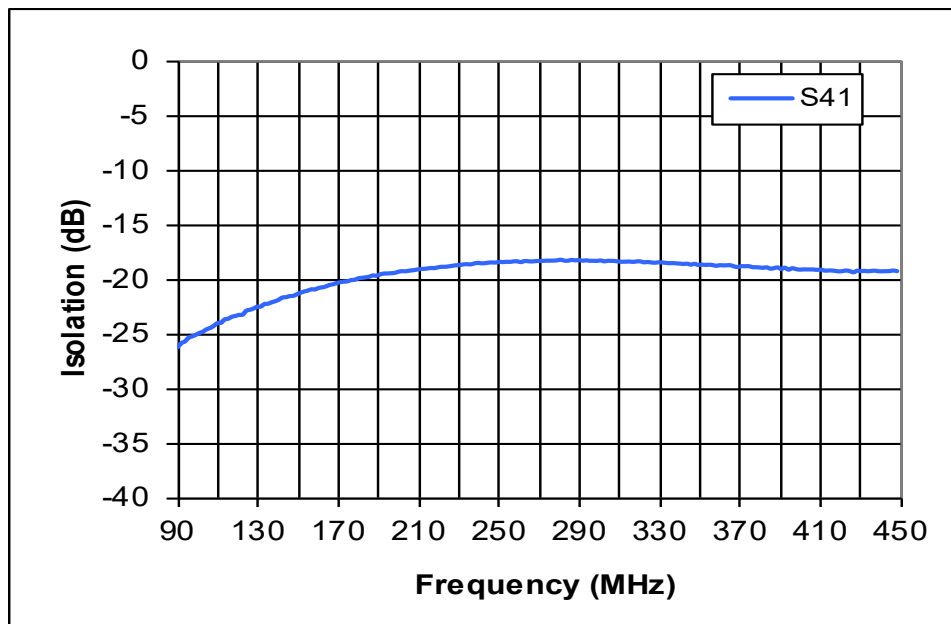
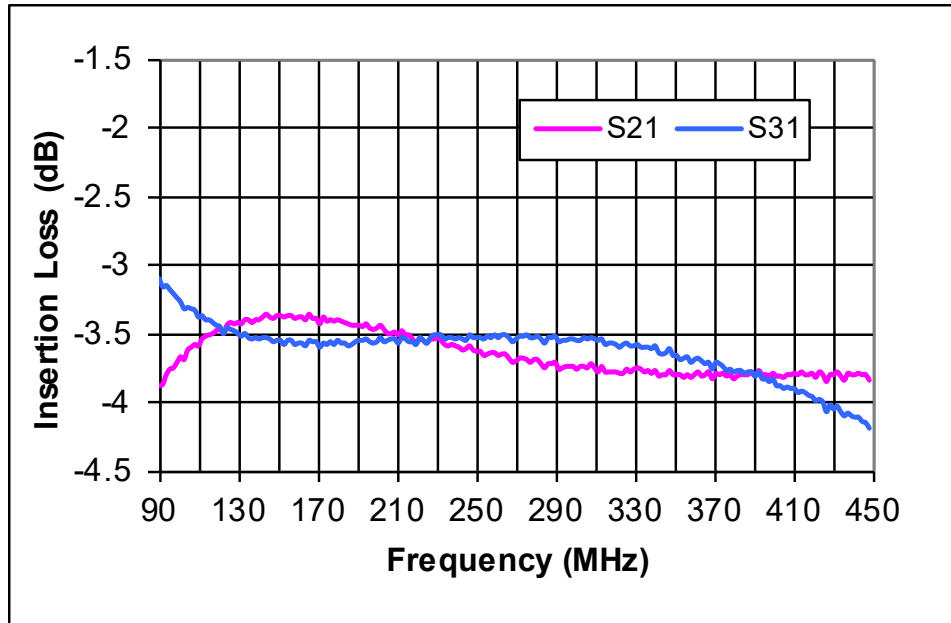
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Data @ 25°C



PERFORMANCE PLOTS

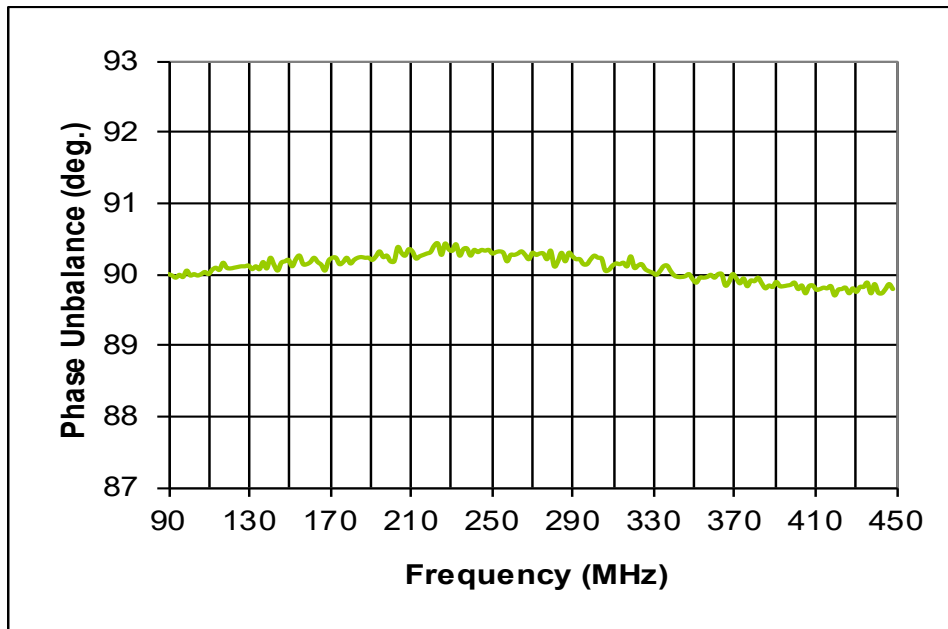
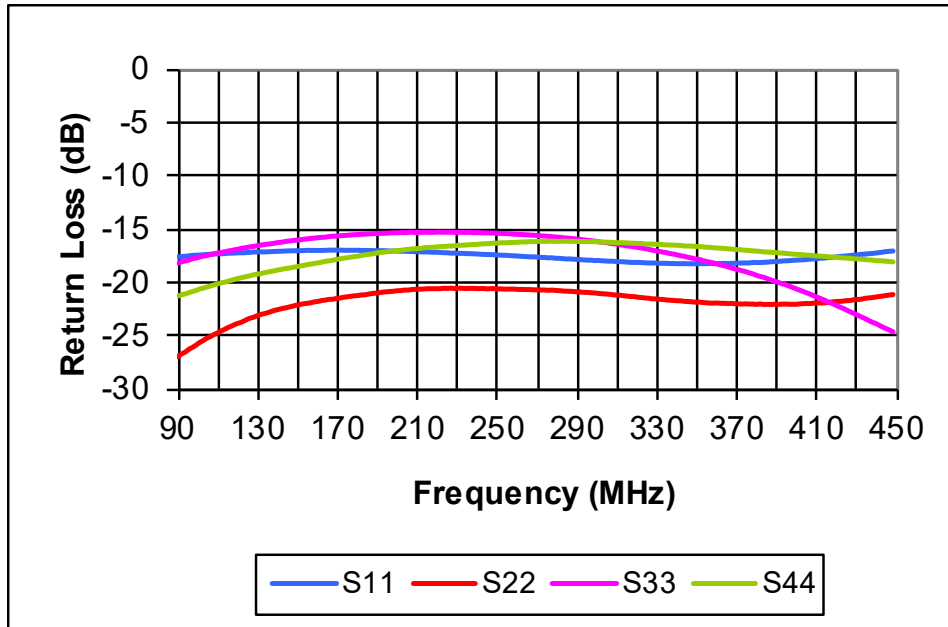
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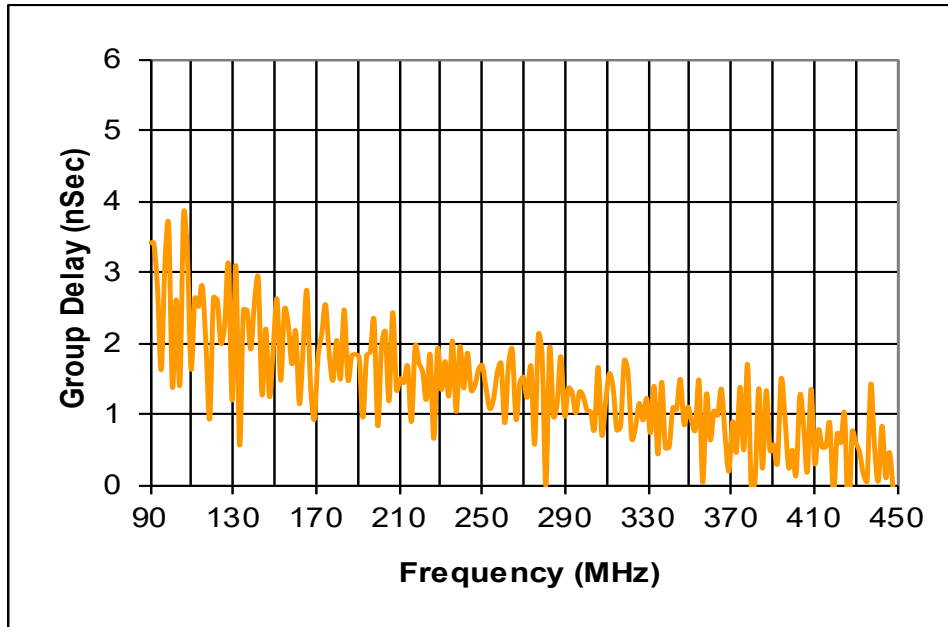
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