

90° HYBRID

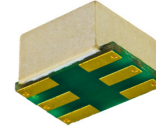
SURFACE MOUNT MODEL: SLQ-310

3:1 BANDWIDTH

115 - 345 MHz

FEATURES:

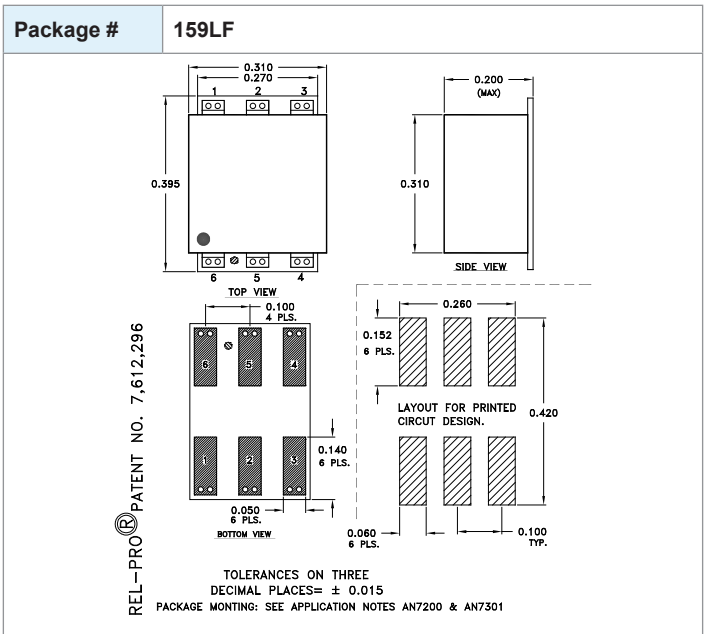
- ▶ Excellent Performance
- ▶ Small Size, Surface Mount
- ▶ Building Block For:
 - Power Amplifiers
 - Image Rejection Mixers
 - I & Q / SSB Modulators
 - Phase Shifters & More...



SPECIFICATIONS (Rev. E 09/18/18)

| | | |
|-----------------------------|----------------|------|
| Frequency | 115 - 345 MHz | |
| Insertion Loss (dB) * | Typ. | Max. |
| | 0.2 | 0.5 |
| Amplitude Unbalance | Typ. | Max. |
| | 0.8 | 1.4 |
| Phase Unbalance (Deg.) | Typ. | Max. |
| | 2 | 4 |
| Isolation (dB) | Typ. | Min. |
| | 20 | 15 |
| Power Rating | 1 Watt (Max.) | |
| Impedance | 50 Ohms (Nom.) | |
| VSWR | 1.4:1 (Typ.) | |
| Operating Temperature Range | -40 to +85 °C | |
| Storage Temperature Range | -55 to +100 °C | |

* Insertion loss is the average loss of the 2 coupling values in excess of the theoretical 3 dB coupling.



| Port Configuration | | | | |
|--------------------|-----------|-------------|-----------|--------|
| Input | Isolated* | +90° Output | 0° Output | GND.** |
| 6 | 5 | 1 | 2 | 3,4 |

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

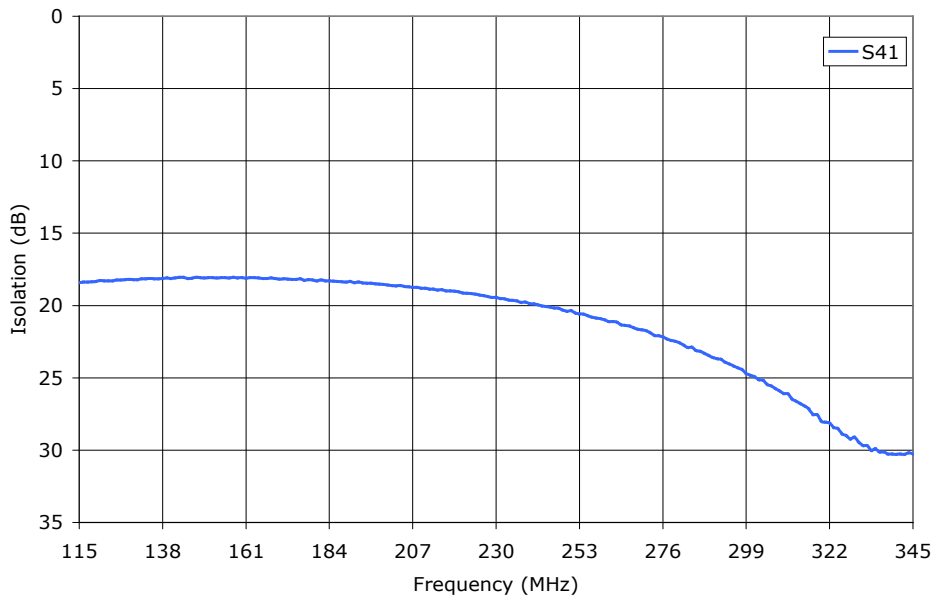
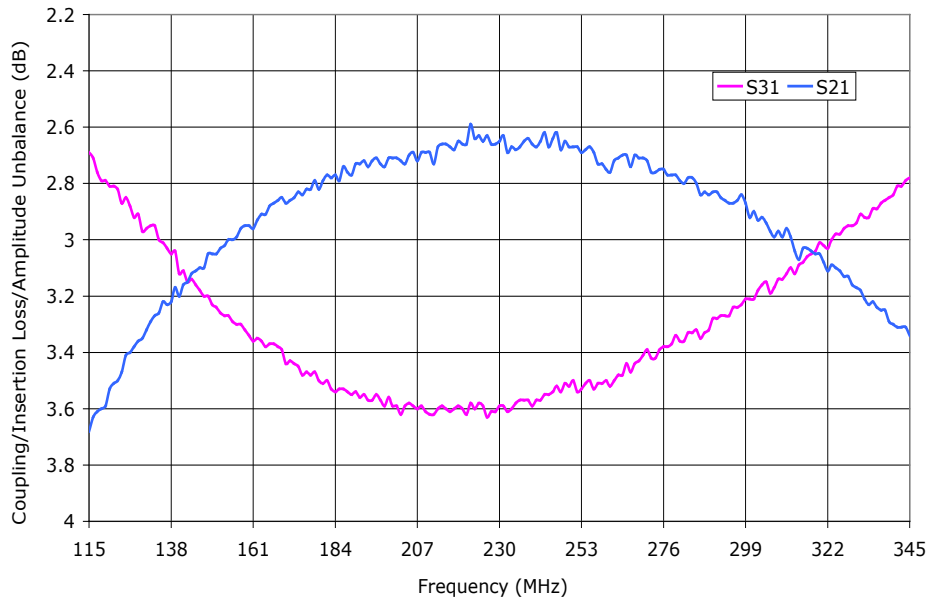
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Data @ 25°C



PERFORMANCE PLOTS

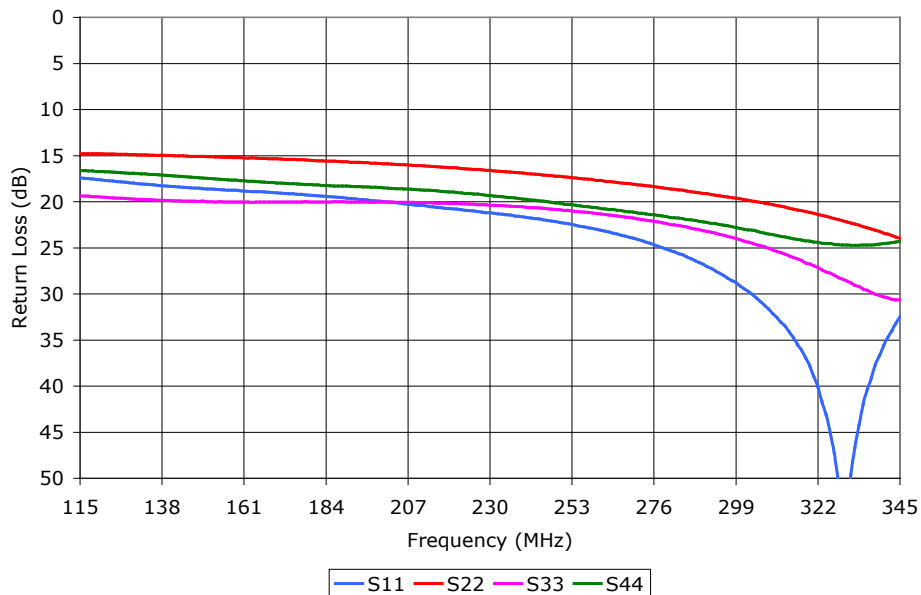
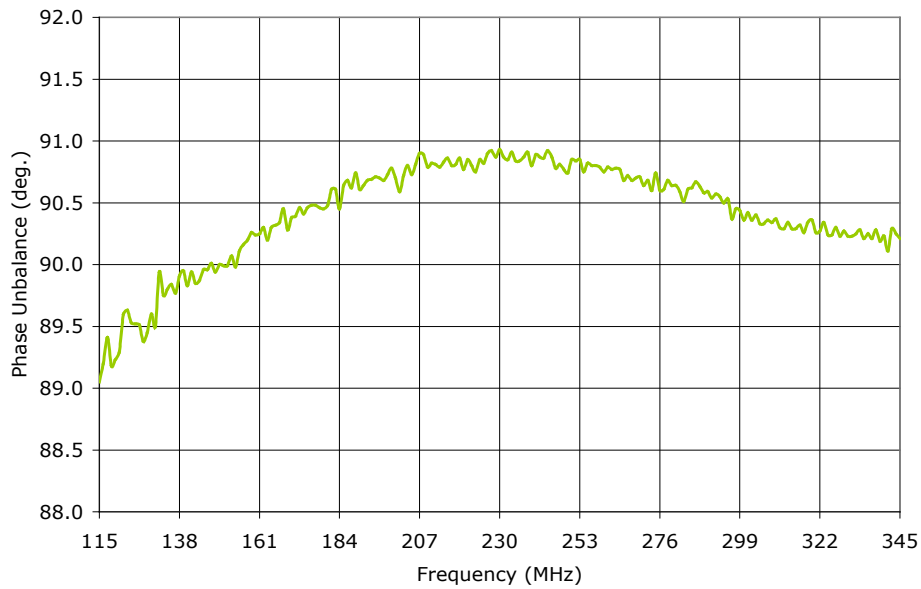
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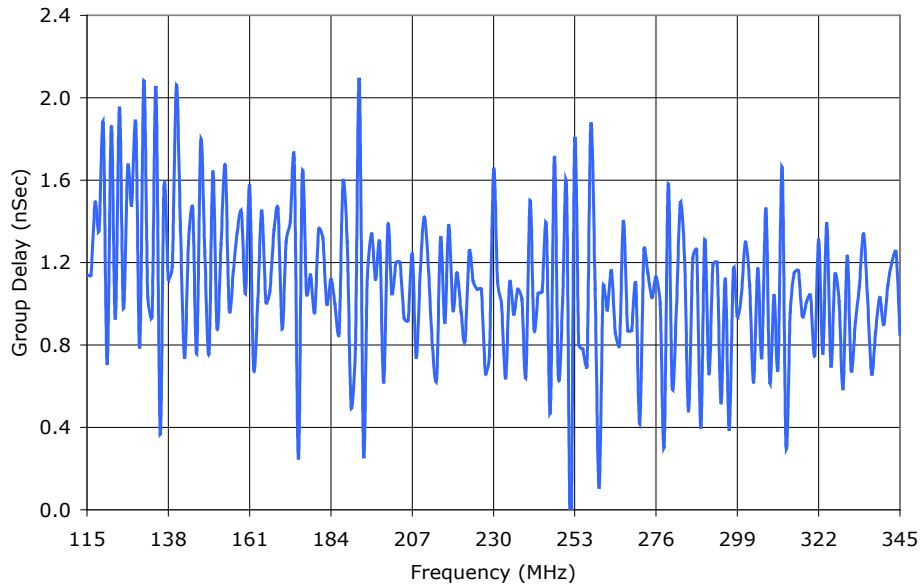
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