

90° HYBRID

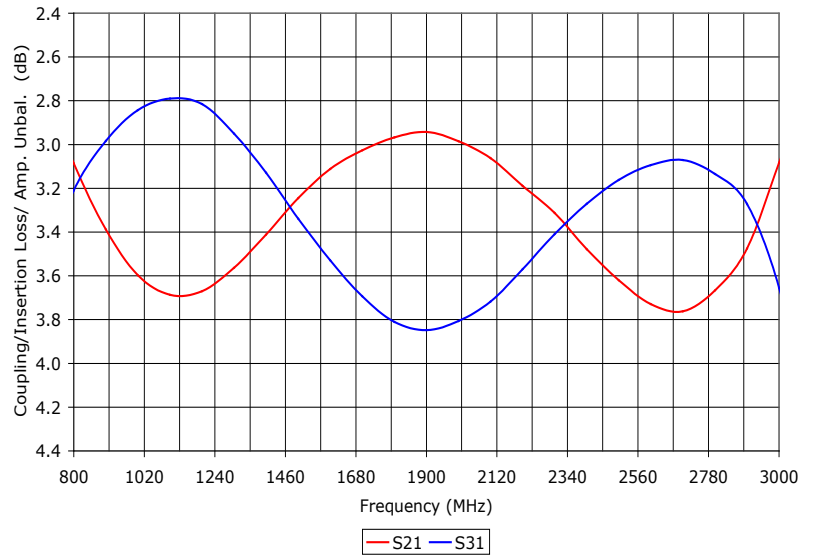
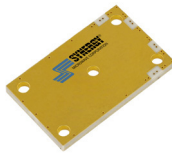
SURFACE MOUNT MODEL: MSQ80300

WIDE BANDWIDTH

800 - 3000 MHz

FEATURES:

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



SPECIFICATIONS (Rev. C 03/12/09)

| | | |
|--------------------------|----------------|------|
| Frequency | 800 - 3000 MHz | |
| Insertion Loss (dB) * | Typ. | Max. |
| | 0.5 | 1.0 |
| Amplitude Unbalance (dB) | Typ. | Max. |
| | 0.7 | 1.5 |
| Phase Unbalance (Deg.) | Typ. | Max. |
| | 2.0 | 7.0 |

| | | |
|--|-------------------------------|------|
| Isolation (dB) | Typ. | Min. |
| | 18 | 13 |
| Power Rating | 20 Watts Ave. (CW) | |
| Impedance | 50 Ohms (Nom.) | |
| VSWR | 1.35:1 (Typ.) / 1.60:1 (Max.) | |
| Operating Temperature Range | -55 to +85 °C | |
| Storage Temperature Range | -55 to +100 °C | |
| * Insertion loss in excess of the theoretical 3 dB coupling. | | |

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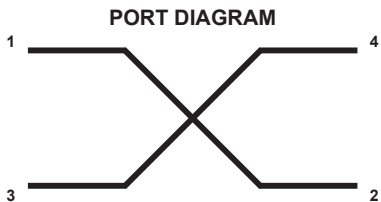
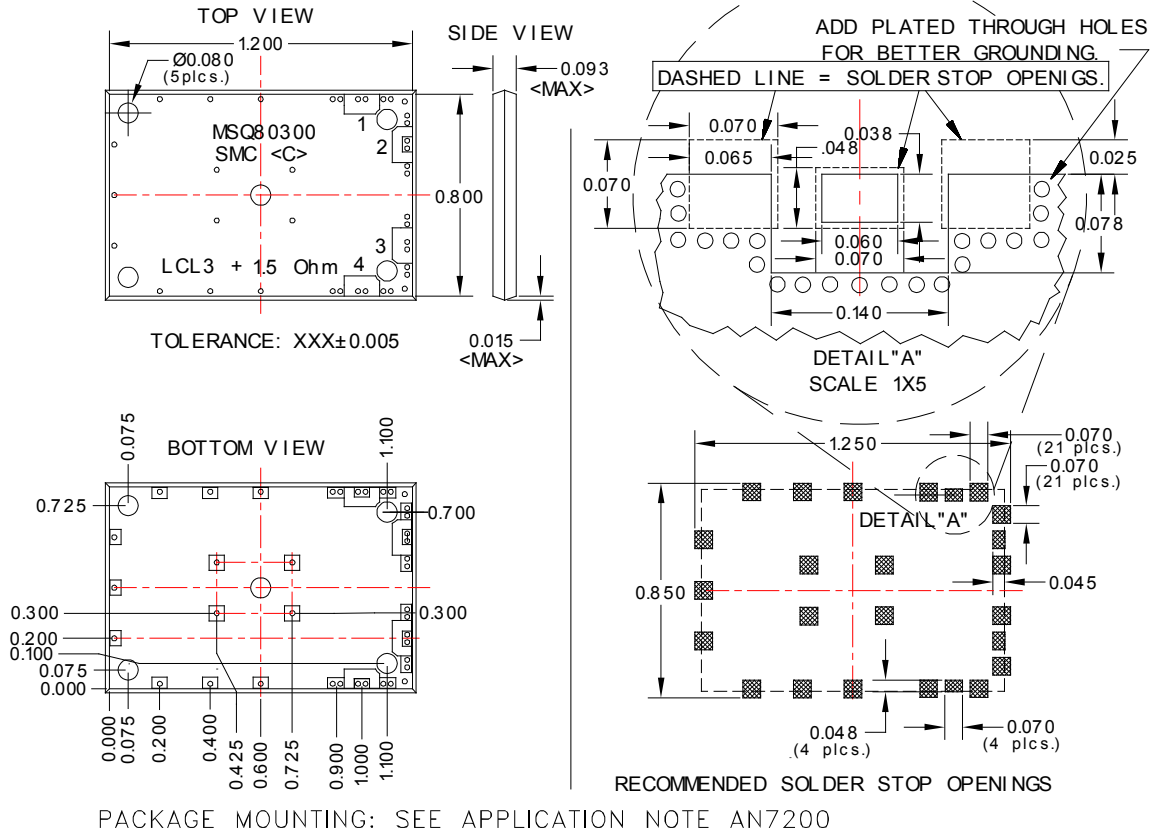
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Package # 325

REL-PRO® PATENT NO 7,612,296



PHASING DIAGRAM

| OUT IN | 1 | 2 | 3 | 4 |
|-----------|------|------|------|------|
| 1 | X | 0° | +90° | ISO |
| 2 | 0° | X | ISO | +90° |
| 3 | +90° | ISO | X | 0° |
| 4 | ISO | +90° | 0° | X |

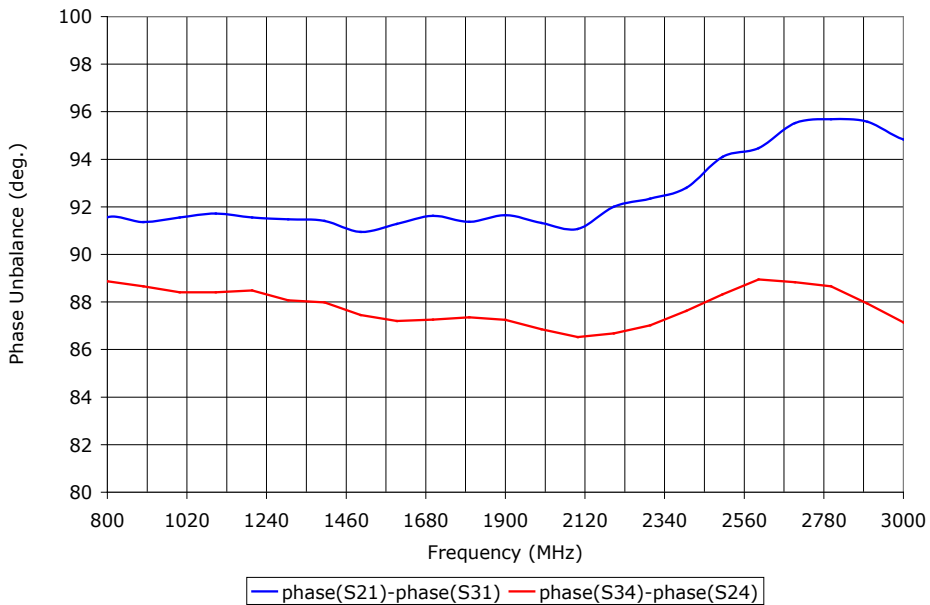
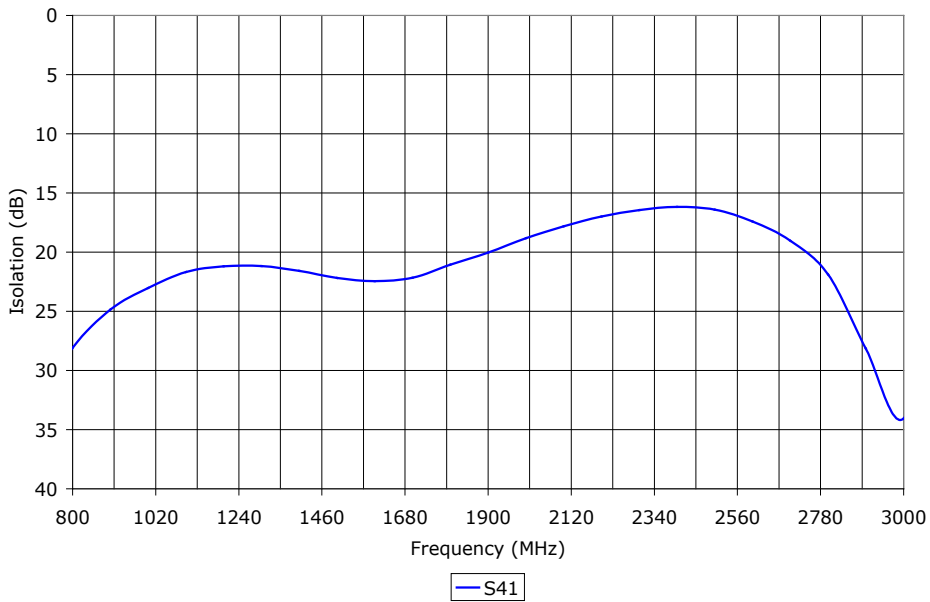
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Data @ 25°C



PERFORMANCE PLOTS

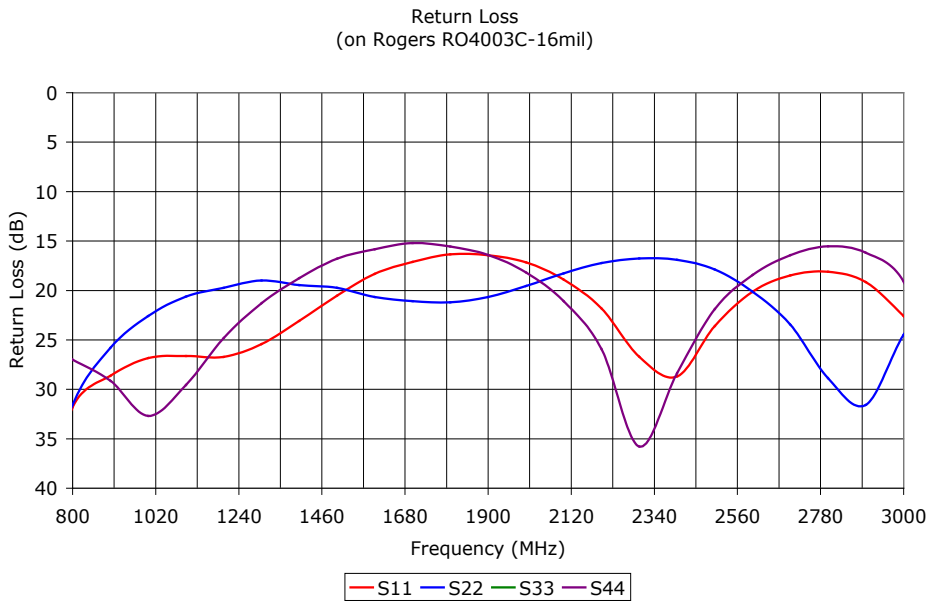
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PERFORMANCE PLOTS