

DOUBLE-BALANCED MICROWAVE MIXER

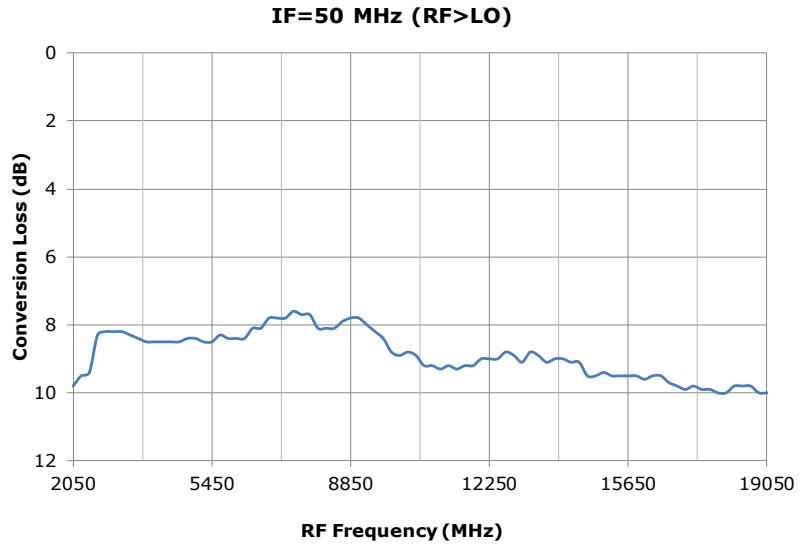
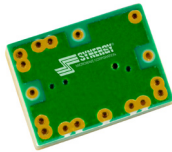
SURFACE MOUNT MODEL: SGS-6-13

WIDE BANDWIDTH - GALAXY SERIES

2 - 19 GHz

FEATURES:

- ▶ Compact Size
- ▶ Low Conversion Loss
- ▶ SYNSTRIP® Multi-layer Technology
- ▶ REL-PRO® Patented Technology
- ▶ Low Cost



SPECIFICATIONS (Rev. A 11/21/16)

| | | | |
|-----------------------------|----------------|--------|------|
| Frequency (GHz) | RF/LO | IF | |
| | 2 - 19 | DC - 4 | |
| Conversion Loss (dB) | Typ. | Max. | |
| | 9.0 | 10.5 | |
| Isolation (dB) | | Typ. | Min. |
| | LO/RF | 30 | 15 |
| | LO/IF | 20 | 13 |
| LO Power | +13 dBm (Nom.) | | |
| Input IP ³ | +16 dBm (Typ.) | | |
| Impedance | 50 Ohms (Nom.) | | |
| Operating Temperature Range | -40 to +85 °C | | |

Package # 332

REL-PRO® PATENT NO. 7.612.296

Remove copper from mixer diodes hole area. #0.100

50 OHM TRL X 3 PLCS.

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

RECOMMENDED PCB LAYOUT

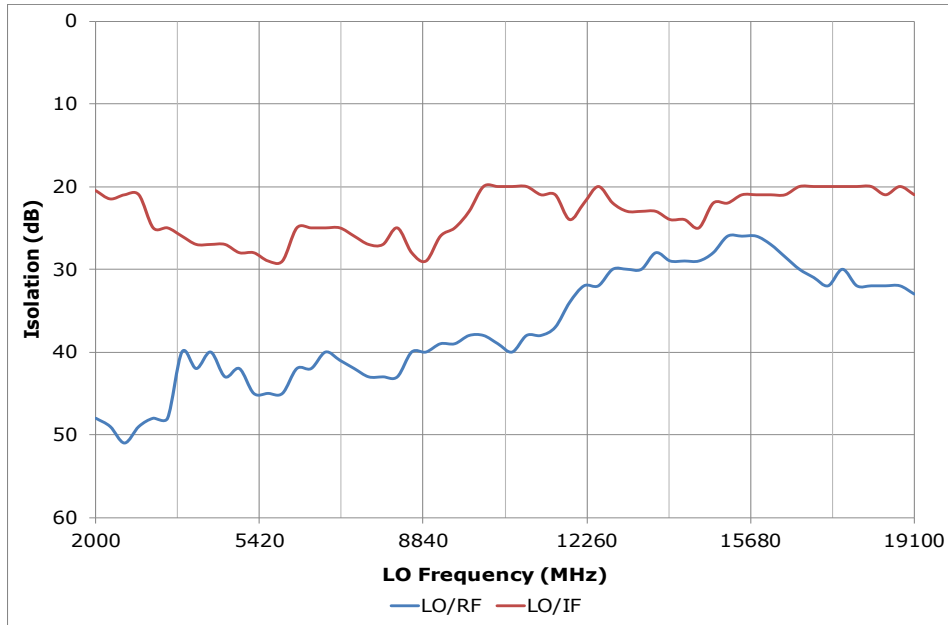
PACKAGE MOUNTING: SEE APPLICATION NOTES AN7200 & AN7700

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PERFORMANCE PLOTS