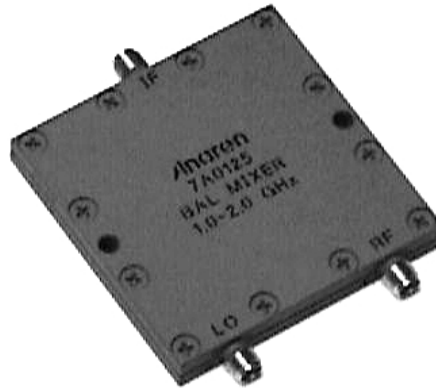


Mixers

Balanced, OrthoQuad®

Applications

- Down Converters
- Demodulators
- Pulse Modulators
- Current Controlled Attenuators
- Phase, Frequency Discriminators



Features

- Military Grade
- Good LO/RF Isolation
- Connectors Per MIL-C-39012
- Low Conversion Loss
- Good Intermodulation Performance
- Good LO/RF VSWR

Electrical Specifications

| Frequency GHz | Isolation _{LO-RF} dB Min/Typ | Convers. Loss dB Max/Typ | VSWR _{RF, LO} Max/Typ :1 |
|-----------------------------------|--|-----------------------------|--------------------------------------|
| 1.0 - 2.0 | 20/30 | 8.0/6.5 | 1.5/1.2 |
| Noise Fig. ¹ dB Max | IF Freq. ² MHz | | |
| 8.5/7.5 | DC-150 | | |

Note: Impedance: 50 ohms nominal. Operating temperature -54 to +95°C. LO drive of +8 dBm. All measurements are made in 50 ohm system. For biased models, conversion loss and noise figures specify @ 0 dBm LO power. Mixers have internal bias networks that allow operation over LO dynamic range ≥ 20 db while maintaining optimum conversion loss.

Electrical and Mechanical Specifications subject to change without notice.

¹Noise figure is single sideband using a 30 MHz amplifier having a noise of 1.5 dB. ²Upper IF frequency is the -3dB response point.

Outline Drawing

