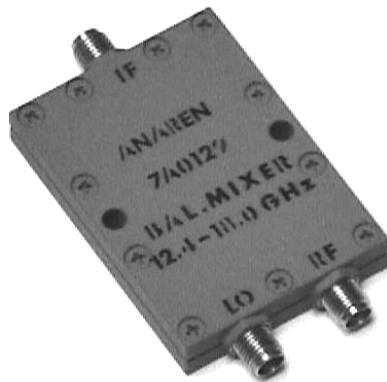


## Mixers

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

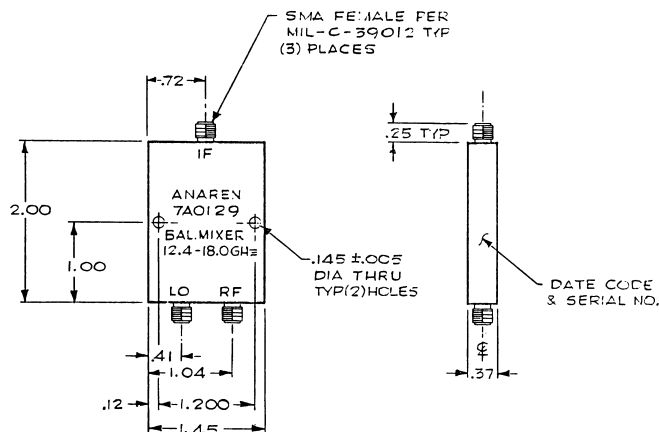
Frequency GHz	Isolation <sub>LO-RF</sub> dB Min/Typ	Convers. Loss dB Max/Typ	VSWR <sub>RF, LO</sub> Max/Typ :1
12.4 - 18.0	14/20	9.5/8.0	2.2/1.7
<b>Noise Fig.<sup>1</sup> dB Max</b>	<b>IF Freq.<sup>2</sup> MHz</b>		
10.0/9.0	DC-600		

**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.**

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

### Outline Drawing



#### NOTES:

1. FINISH: EPOXY PRIMER BLUE EPOXY PAINT
2. MARK PER MIL-STD-130
3. DIMENSIONS ARE IN INCHES