



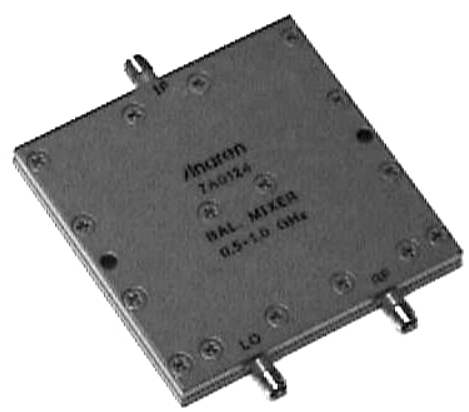
# Model 7A0124

## 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

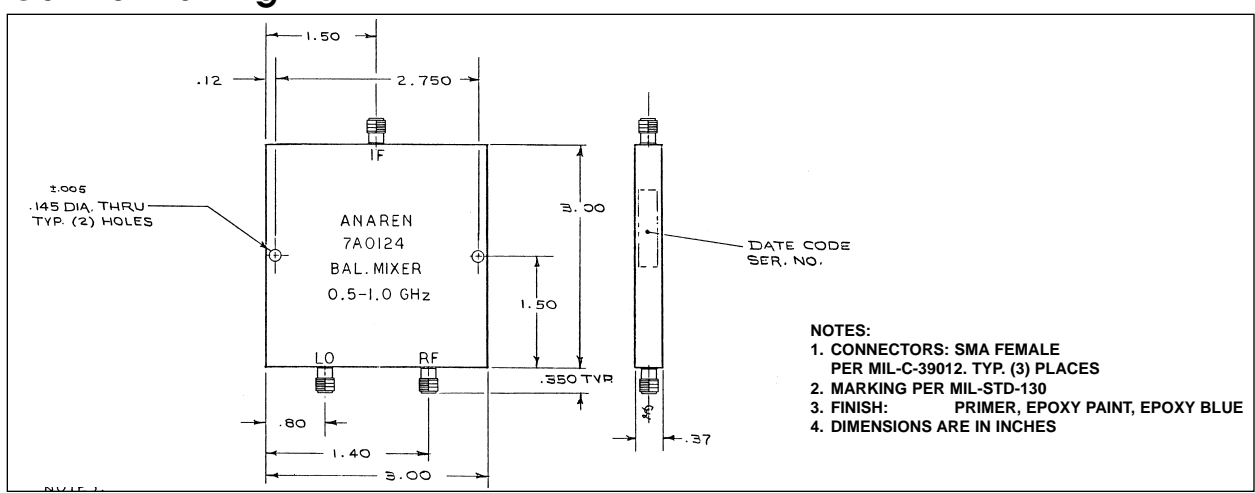
| Frequency<br>GHz                  | Isolation <sub>LO-RF</sub><br>dB Min/Typ | Convers. Loss<br>dB Max/Typ | VSWR <sub>RF, LO</sub><br>Max/Typ :1 |
|-----------------------------------|--|-----------------------------|--------------------------------------|
| 0.5 - 1.0                         | 20/25                                    | 7.5/6.5                     | 1.6/1.2                              |
| Noise Fig. <sup>1</sup><br>dB Max | IF Freq. <sup>2</sup><br>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.**

<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



**Sales Desk USA:** Voice: (800) 544-2414 Fax: (315) 432-9121  
**Sales Desk Europe:** Voice: (+44) 23 92 232392 Fax: (+44) 23 92 251369

