



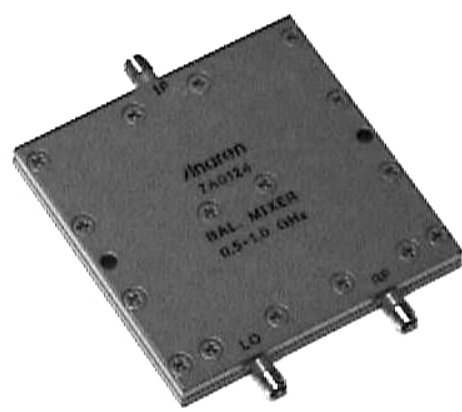
Model 7A0124

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

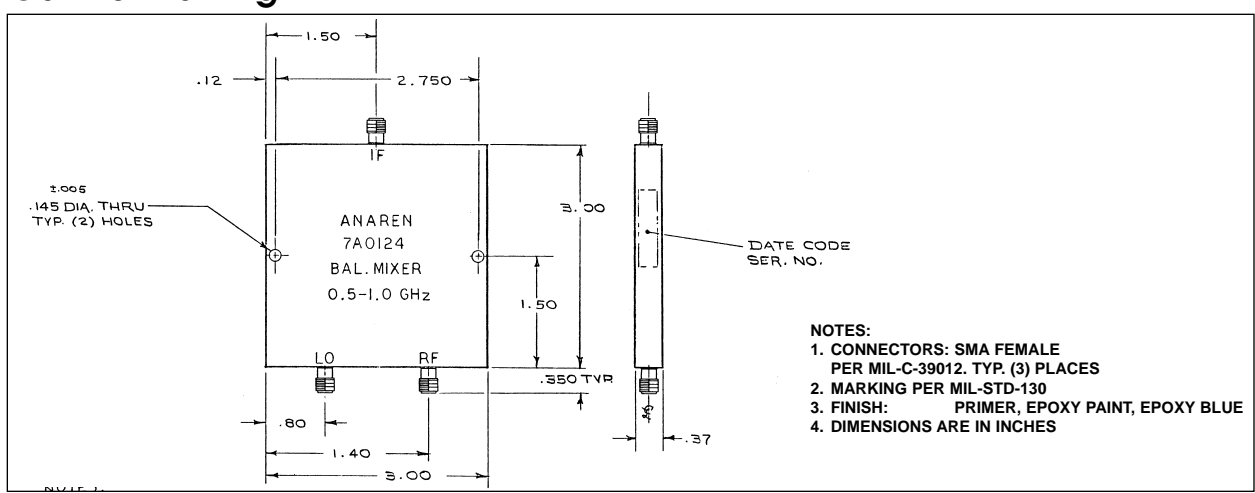
Frequency GHz	Isolation _{LO-RF} dB Min/Typ	Convers. Loss dB Max/Typ	VSWR _{RF, LO} Max/Typ :1
0.5 - 1.0	20/25	7.5/6.5	1.6/1.2
Noise Fig. ¹ dB Max	IF Freq. ² MHz		
8.5/7.5	DC-150		

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



- NOTES:**
1. CONNECTORS: SMA FEMALE PER MIL-C-39012, TYP. (3) PLACES
 2. MARKING PER MIL-STD-130
 3. FINISH: PRIMER, EPOXY PAINT, EPOXY BLUE
 4. DIMENSIONS ARE IN INCHES



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