

Mixers

Double Balanced

Applications

- Wideband Down Converters
- Wideband Up Converters
- Balanced Modulators
- Bi-Phase Modulators
- Phase Detectors



Features

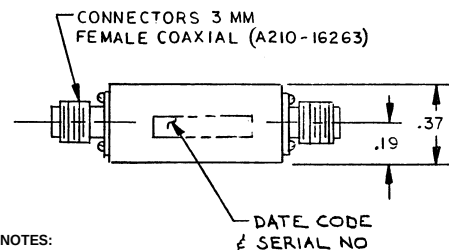
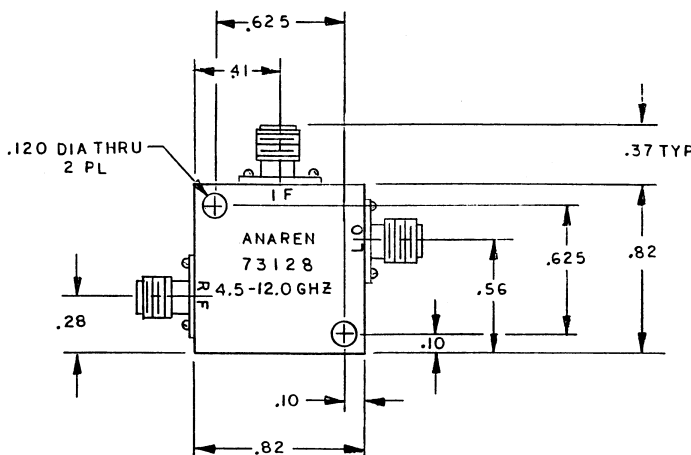
- Extremely Wide IF Bandwidth
- Good LO/Rf Isolation
- Multi-Octave Performance
- Good Intercept Point
- Miniature Size
- Connectors Per MIL-C-39012

Electrical Specifications

Frequency GHz	Isolation LO-RF dB Min/Typ	Convers. Loss dB Max/Typ	VSWR, RF Typ : 1
4.5 - 12.0	15/23	9.0/8.0	4.5
IF Freq. ¹ MHz	RF Power ² Input dBm	LO Power dBm Nominal	
DC-4000	+4	+12	

Notes: Impedance: 50 ohms nominal. Meets MIL-E-5400 Class 3 requirements. Additional screening available for military and space applications. 1) Upper IF frequency is the -3 dB response point. 2) At 1dB Compression point **Electrical and Mechanical Specifications subject to change without notice.**

Outline Drawing



- NOTES:**
- 1 Power (Bias terminal grounded)
 - 2 Conversion loss measured at 60 MHz
DC blocking capacitor (470 pF) built into I.F. output
 - 3 External bias current limitation must be employed when using bias option.
Use any positive supply voltage (up to +15V) by selecting required value of current limiting resistor to optimize bias current.
 - 4 Finish: Epoxy Primer (A160-16123-G001)
Blue Epoxy Paint (A160-16221-G001)
 - 5 Marking: Marking shall be in accordance with MIL-STD-130
 - 6 Dimensions: Inches
 - 7 Weight 40 grams

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