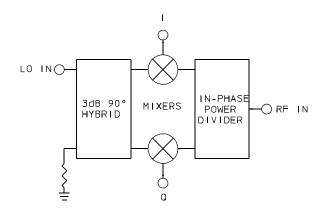
1.5 GHz Center Frequency / Full Octave LO Bandwidth / Hi-Rel, Hermetic Package





PRINCIPAL SPECIFICATIONS

Model	RF/LO Center	RF/LO
Number	Frequency, fo	Bandwidth
IQF-4F-1500	1.5 GHz	1 to 2 GHz

General Notes:

- 1. I & Q networks are integrated devices that produce two quadrature-phased, equal amplitude signals when fed RF and LO signals.
- 2. The IQF-4F-1500 microwave I & Q network uses both lumped and distributed circuit technologies to minimize size and weight while maximizing high performance.
- 3. Nominally centered at 1.5 GHz, this unit covers the full 1 to 2 GHz band. It is ideal for applications such as frequency agile systems that require extremely wide bandwidths.
- 4. Merrimac I & Q networks comply with the relevant sections of MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

GENERAL SPECIFICATIONS

RF/LO Input Characteristics

Impedance: 50Ω nom. VSWR: 1.8:1 max. at f₀

2.0:1 max. over BW

RF Power Level: 0 dBm nom. LO Power Level: +10 dBm nom.

I & Q Output Characteristics

Video Bandwidth: DC to[†]100 MHz nom.

Output Impedance: 50 Ω nom.

Conversion Loss

(RF to I or Q): 10 dB typ. 12 dB max.

IF Balance (I to Q)

Phase Quadrature: \pm 3° typ., \pm 5° max. Amplitude: 0.2 dB typ,0.5 dB max.

Weight, nominal: 0.35 oz (10 g) Operating Temp: -- 55° to +85°C

[†]RF and Video Bandwidth is typically much greater than specified.

