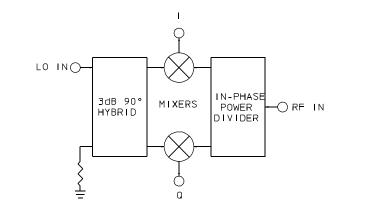
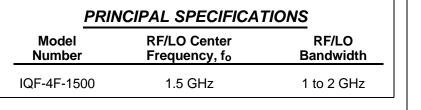
## **IQF-4F-1500**

## **I&Q NETWORK**

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





## **General Notes:**

1. I & Q networks are integrated devices that produce two quadrature-phased, equal amplitude signals when fed RF and LO signals.

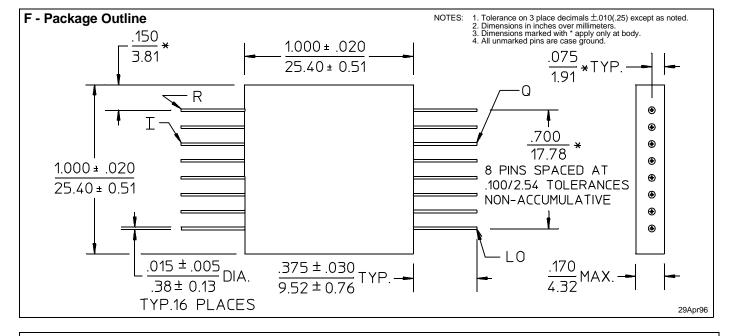
2. The IQF-4F-1500 microwave I & Q network uses both lumped and distributed circuit technologies to minimize size and weight while maximizing high performance.

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.



RF/LO Input Chara Impedance:	cteristics 50 $\Omega$ nom.
VSWR:	1.8:1 max. at f <sub>o</sub> 2.0:1 max. over BW
RF Power Level:	
LO Power Level:	+10 dBm nom.
I & Q Output Characteristics	
Video Bandwidth:	DC to <sup>†</sup> 100 MHz nom.
Output Impedance:	50 $\Omega$ nom.
Conversion Loss	
(RF to I or Q):	10 dB typ.
	12 dB max.
IF Balance (I to Q)	
Phase Quadrature: Amplitude:	$\pm$ 3° typ., $\pm$ 5° max. 0.2 dB typ,0.5 dB max.
Weight, nominal:	0.35 oz (10 g)
Operating Temp:	55° to +85°C
<sup>†</sup> RF and Video Bandwidth is typically much greater than specified.	



For further information contact M ERRIM AC /41 Fairfield PL,W est Cable ell,NJ ,07006 / 973-575-1300 /FAX 973-575-0531