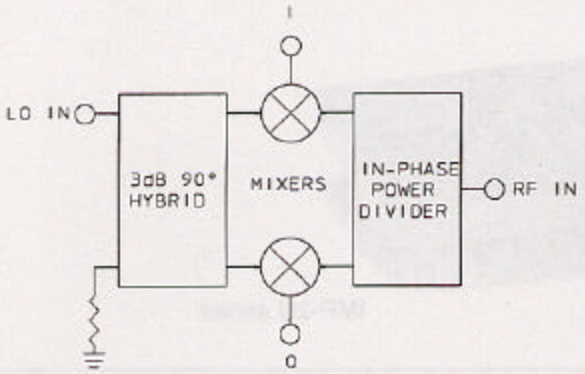
NEW DIRECTIONS

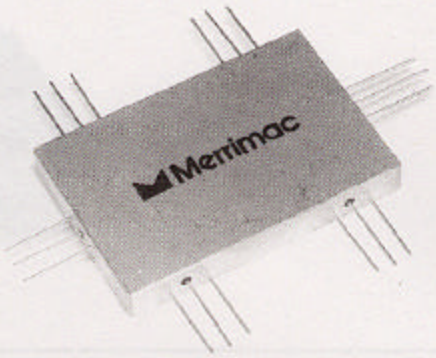
Merrimac IQF-3L-1000

I&Q NETWORK

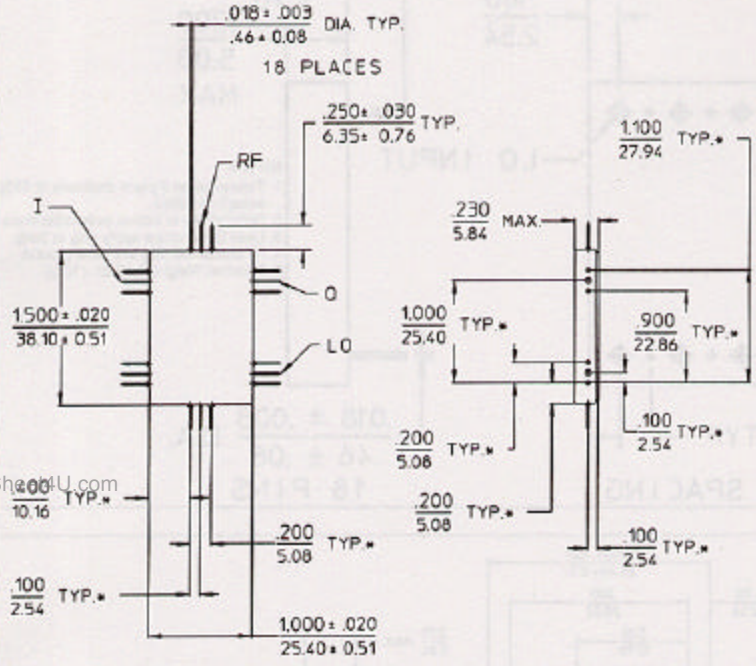
750 to 1250 MHz / Excellent Phase and Amplitude Balance / Hermetic Hi-Rel Flatpack

2.12





L-Package Outline



NOTES:
1. Tolerance on 3 place decimals ±.020 (0.51) except as noted.
2. Dimensions in inches over millimeters.
3. "Max." is the largest dimension allowed.
4. All leads to be within ± 0.010 (0.25) of each other at this dimension.
5. Dimensions marked with * apply only at body.
6. All unmarked pins are case ground.

PRINCIPAL SPECIFICATIONS

Model Number	RF/LO Freq. Range, MHz	Bandwidth, MHz
IQF-3L-1000	750 - 1250	500

GENERAL SPECIFICATIONS

RF/LO Input Characteristics

Impedance:	50 Ω nom.
VSWR (RF, LO:	1.8:1 max.
RF Power Level:	0 dBm max.
LO Power Level:	+10 dBm nom.

I & Q Output Characteristics

90° Phase Accuracy:	±3°, typ., ±5° max.
Amplitude Balance:	0.3 dB typ., 0.5 dB max.
Video Bandwidth:	DC to †100 MHz nom.
Output Impedance:	50 Ω nom.

Conversion Loss:	10 dB typ, 12 dB max. (RF to I or Q)
Weight, nominal:	0.55 oz (15.6 g)
Operating Temp:	– 55° to +85°C

†Video Bandwidth is typically much greater than 100 MHz

General Notes:

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

2. The IQF-3L-1000 wideband microwave I & Q network uses both lumped and distributed circuit technologies to maximize high performance and is based on a reliable flatpack design.

3. 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.

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