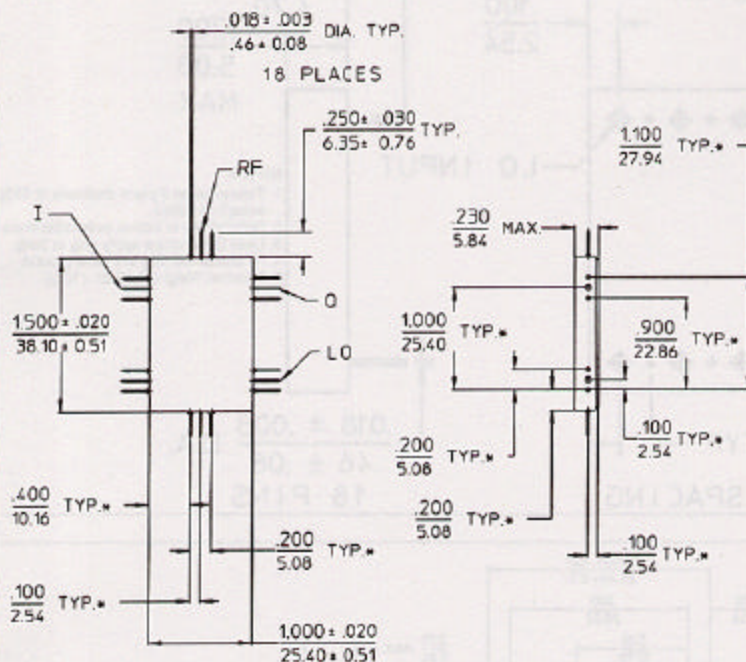


2.12

L-Package Outline



- NOTES: 1. Tolerance on 3 place decimals ± 0.020 (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: $\pm 3^\circ$, typ., $\pm 5^\circ$ max.
- Amplitude Balance: 0.3 dB typ., 0.5 dB max.
- Video Bandwidth: DC to \uparrow 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

\uparrow Video Bandwidth is typically much greater than 100 MHz

General Notes:

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