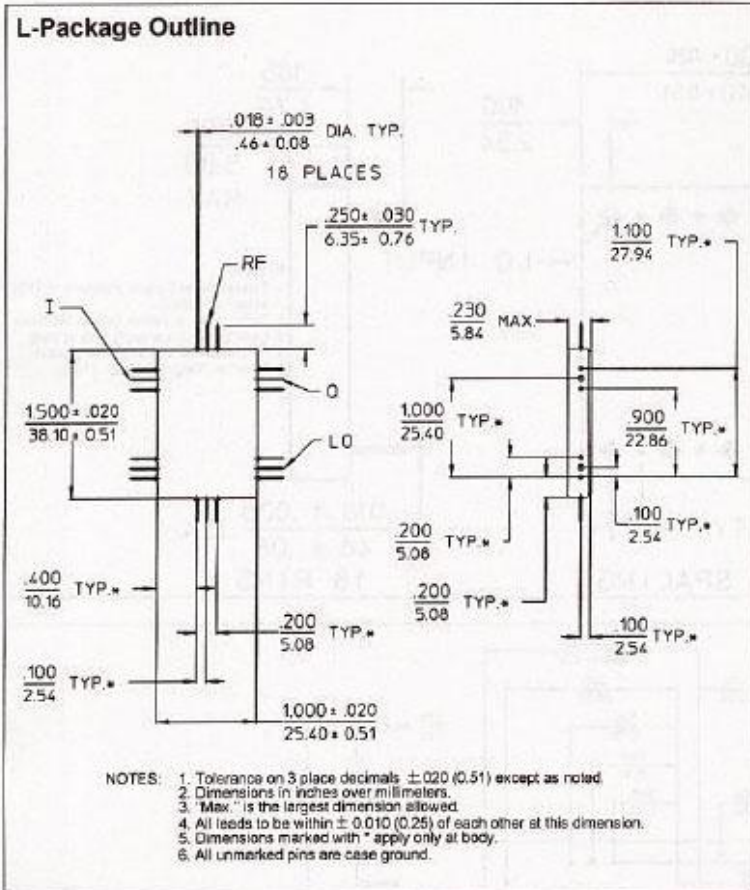
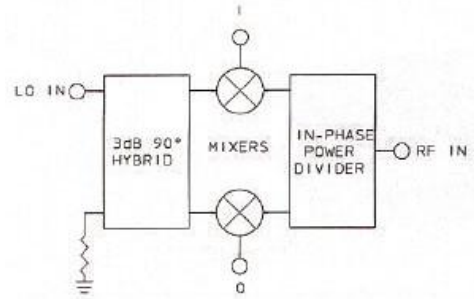


IQF-3L-1000 – I&Q NETWORKS

TECHNICAL FEATURE

FEATURES

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



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:

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.

23Feb96

