

## PRINCIPAL SPECIFICATIONS

Model Number	LO/RF Bandwidth, MHz	Phase Balance	Amplitude Balance, dB
IQF-9L-500	30 - 1000	90° ± 5°	0.5

## 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. In the IQF-9L, specially designed lead/lag circuits are used to provide superior performance across very wide bandwidths as is required in spread spectrum communications systems.
3. These units 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 and LO Input Characteristics

Impedance:	50 Ω nom.
VSWR:	1.3:1 typ. 1.7:1 max.
RF Power Level:	0 dBm max.
LO Power Level:	+11.5 dBm nom.*

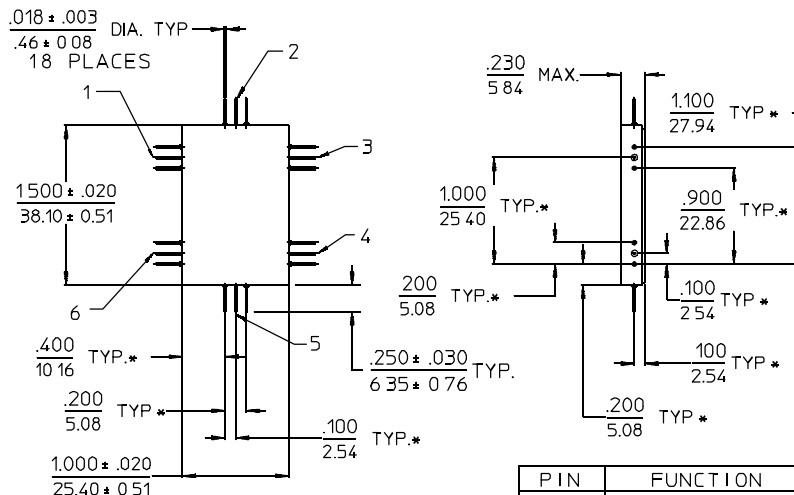
### I & Q Output Characteristics

Video Bandwidth:	DC to †100 MHz
Two Tone, 3rd Order Input Intercept:	+16 dBm typ.
Output Impedance:	50 Ω nom.
Conversion Loss (RF to I or Q):	10 dB typ., 12 dB max.
Weight, nominal:	0.55 oz (15.4 g)
Operating Temp:	-55° to +85°C

†Video Bandwidth is typically much greater than specified.

\*Higher LO Power versions available to special order.

## L - Package Outline



### NOTES:

1. Tolerance on 3 place decimals ±.010(.25) except as noted.
2. Dimensions in inches over millimeters.
3. Dimensions marked with \* apply only at body.
4. All unmarked pins are case ground.

PIN	FUNCTION
1	Ground
2	LO Input
3	Ground
4	Q Output
5	RF Input
6	I Output

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