

PRINCIPAL SPECIFICATIONS

Model Number	RF/LO Center Frequency, f_0	\dagger Bandwidth MHz
IQP-4R-***B	10 – 300 MHz	67% of f_0

For complete Model Number replace *** with desired LO Center Frequency, f_0 in MHz.

GENERAL SPECIFICATIONS

RF and LO Input Characteristics

Impedance: 50 Ω nom.
 VSWR: 1.5:1 max.
 RF Power Level: 0 dBm nom.
 LO Power Level: +10 dBm nom.

I & Q Output Characteristics

Video Bandwidth: DC to \dagger 50 MHz nom.
 Output Impedance:

Conversion Loss

(RF to I or Q): 10 dB typ, 12 dB max.

IF Balance (I to Q)

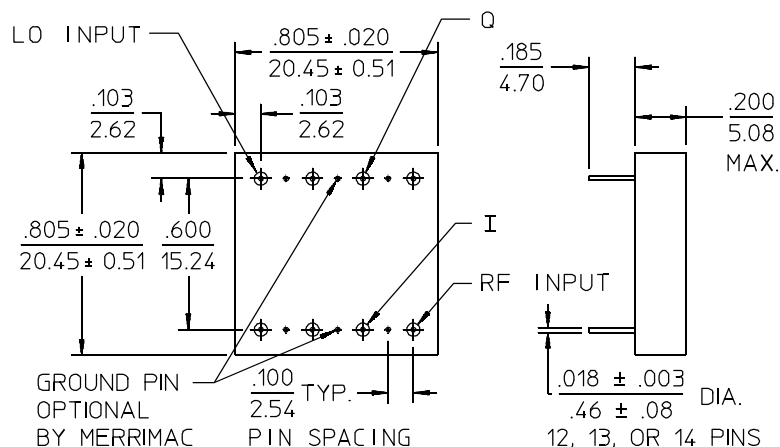
Phase: $90^\circ \pm 4^\circ$ typ., $\pm 5^\circ$ max.
 Amplitude: 0.25 dB typ., 0.5 dB max.

Weight, nominal: 0.32 oz (9 g)

Operating Temp: -55° to $+85^\circ\text{C}$

\dagger RF and Video Bandwidths are typically much greater than specified.

Meri-Pac™ R-Package Outline



- NOTES: 1. Tolerance on 3 place decimals $\pm .010(.25)$ except as noted.
 2. Dimensions in inches over millimeters.
 3. Lead dimensions apply only at body.
 4. All unmarked pins are case ground.

AVAILABLE OPTIONS

Higher Freq: (See IQP-4S series)

Narrowband LO: (See IQP-20R series)

Phase Balance: $90^\circ \pm 3^\circ$ max.

Conversion Loss: 8 dB typ., 10 dB max.

General Notes:

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- I & Q networks are integrated networks that produce two quadrature phased, equal amplitude signals when fed RF and LO signals.
- The IQP-4R series of I&Q networks includes an octave band quadrature network to maintains a precise 90° relationship across a full octave of LO frequencies as may be required in some frequency agile communications systems.
- 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.