

## PRINCIPAL SPECIFICATIONS

Model Number	RF/LO Center Frequency, $f_0$	<sup>†</sup> 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  $\Omega$  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 <sup>†</sup>50 MHz nom.  
 Output Impedance:

### Conversion Loss

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

### IF Balance (I to Q)

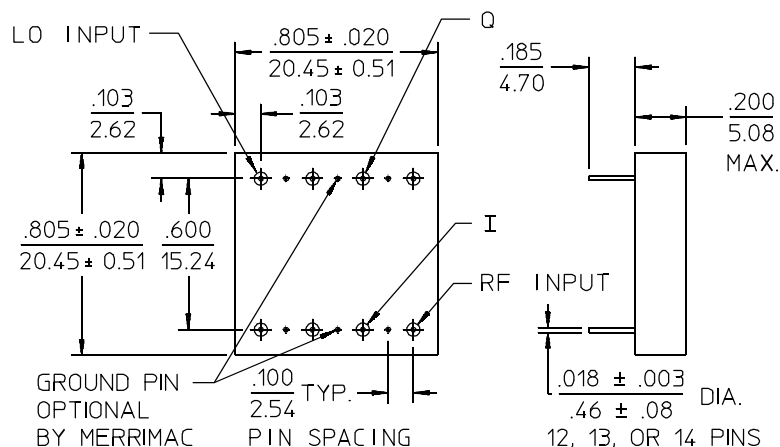
Phase: 90°  $\pm$ 4° typ.,  $\pm$ 5° max.  
 Amplitude: 0.25 dB typ., 0.5 dB max.

Weight, nominal: 0.32 oz (9 g)

Operating Temp: -55° to +85°C

<sup>†</sup>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°  $\pm$  3° max.

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

## General Notes:

- 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.

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