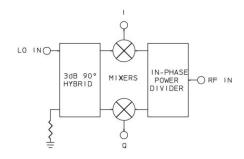
IQP-4R Series – I&Q Networks

TECHNICAL FEATURE

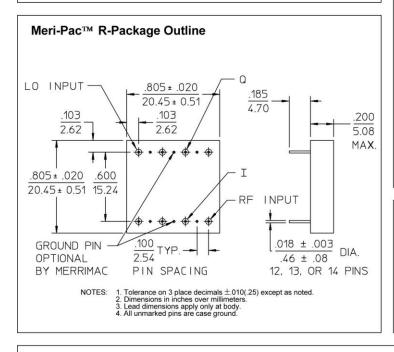
FEATURES

- 10 to 300 MHz RF/LO Center Frequency
- Octave LO BW
- Hi-Rel Hermetic Package



PRINCIPAL SPECIFICATIONS		
Model Number	RF/LO Center Frequency, f _o	[†] Bandwidth MHz
IQP-4R-***B	10 – 300 MHz	67% of f _o
Car samplets Madel November		

For complete Model Number replace with desired LO Center Frequency, fo 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.

& Q Output Characteristics

Video Bandwidth: DC to [†]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° ±4° typ., ±5° max. Amplitude: 0.25 dB typ., 0.5 dB max.

Weight, nominal: 0.32 oz (9 g) Operating Temp: -55° to +85°C

[†]RF and Video Bandwidths are typically much greater than specified.

AVAILABLE OPTIONS

Higher Freq: (See IQP-4S series)

Narrowband LO: (See IQP-20R series)

Phase Balance: 90° ± 3° max.

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

General Notes:

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- 1. I & Q networks are integrated networks that produce two quadrature phased, equal amplitude signals when fed RF and LO signals.
- 2. 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.
- 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.

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