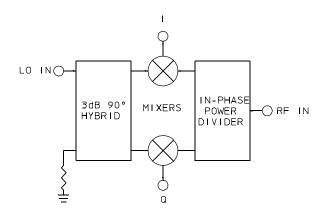
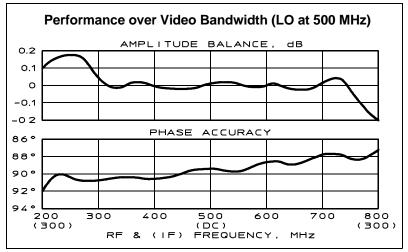
Units to 1 GHz / Precision Phase and Amplitude Balance / Hi-Rel Meri-Pac







Outline of R - Size Meri-Pac™		
LO INPUT 805 20.45 103 2.62 2.62 2.62 2.62 2.62 2.62 2.62 2.6		
PIN SPACING 13 PINS		
NOTES: 1. Tolerance on 3 place decimals ±.0.10(.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.		

PRINCIPAL SPECIFICATIONS			
Model Number	LO Frequency, fo, MHz	Video Bandwidth	
IQP-20R-60B	60	[†] 50 MHz	
IQP-20R-***B	20 - 160	[†] 50 MHz	
IQP-20R-***B	160 - 1000	[†] 100 MHz	
For complete Model Number replace ***with desired LO Center Frequency, fo in MHz.			

GENERAL SPECIFICATIONS

RF/LO Input Characteristics

 † RF Bandwidth: 10% of f₀ Impedance: 50 Ω nom. VSWR: 1.5:1 max. RF Power Level: 0 dBm nom. LO Power Level @ f₀: +10 dBm nom.

Conversion Loss

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

12 dB max.

IF Quadrature Balance (I to Q)@100 kHz IF

Phase, @ LO= f_0 : $\pm 1^{\circ}$ nom.,

±2° max.

Phase, @ LO= $f_0\pm 5\%$: $\pm 3^{\circ}$ nom.,

±5° max.

Ampl., @ $LO=f_0$: 0.2 dB max. Ampl., @ $LO=f_0\pm 5\%$: 0.5 dB max. Weight, nominal: 0.32 oz (9 g)

Operating Temperature: -- 55° to +85°C

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

General Notes

- 1. I & Q networks are integrated networks that produce two quadrature phased, equal amplitude signals when fed RF and LO signals.
- 2. The IQP-20R series are precision tuned at a specified LO to yield excellent phase and amplitude balance values across a 10% LO bandwidth.
- 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.