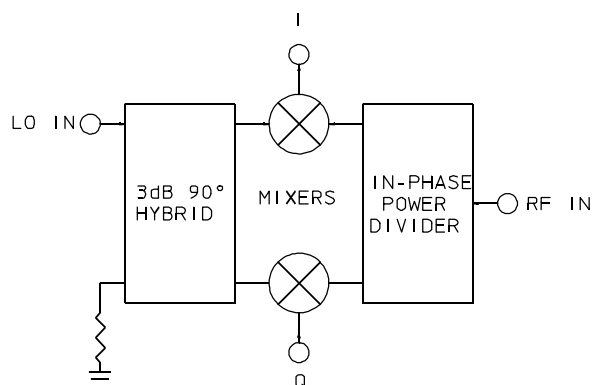


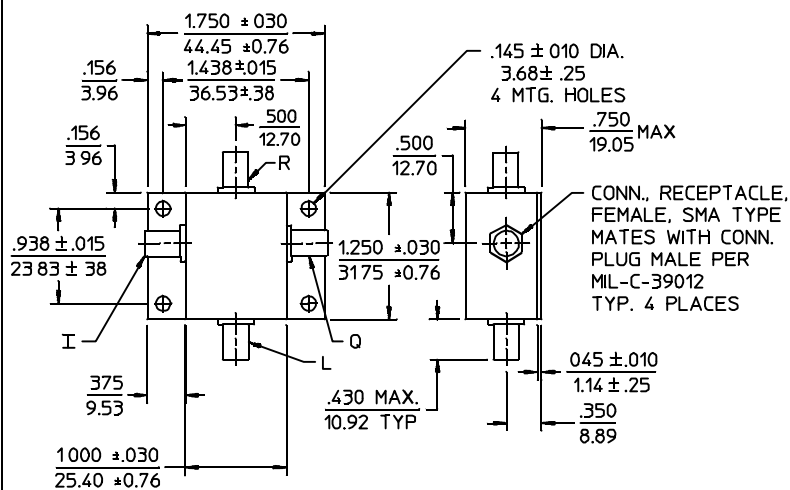


PRINCIPAL SPECIFICATIONS

Model Number	RF/LO Center Frequency, f_0 , MHz	LO Bandwidth (LO Port) Min.	Conversion Loss, dB,		Quadrature Bal., (I to Q) LO at f_0		Amplitude Balance, LO at f_0 , dB,		LO over Rated Band		LO over Rated Band	
			Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.
IQM-20A-***B	5 - 1000	10% of f_0	12	10	$\pm 2^\circ$	$\pm 1^\circ$	$\pm 5^\circ$	$\pm 3^\circ$	0.2	0.1	0.5	
IQM-4A-***B	5 - 300	67% of f_0	12	10	$\pm 5^\circ$	$\pm 3^\circ$	$\pm 5^\circ$	$\pm 3^\circ$	0.5	0.3	0.5	

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

Package Outline



NOTES: 1. Tolerance on 3 place decimals $\pm .020(.51)$ except as noted.
2. Dimensions in inches over mm.

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.

Video Bandwidth, nom: DC to $\dagger$ 50 MHz

Output Impedance: 50 Ω nom.

Weight, nominal: 2 oz (57 g)

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

$\dagger$ RF and Video Bandwidths are dependent on the center frequency, and are typically much greater than specified.

AVAILABLE OPTIONS

Higher Frequencies, alternate bandwidths and different packages also available.

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 IQM-A series uses lumped element circuits for small size and high performance.
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.

23Feb96