

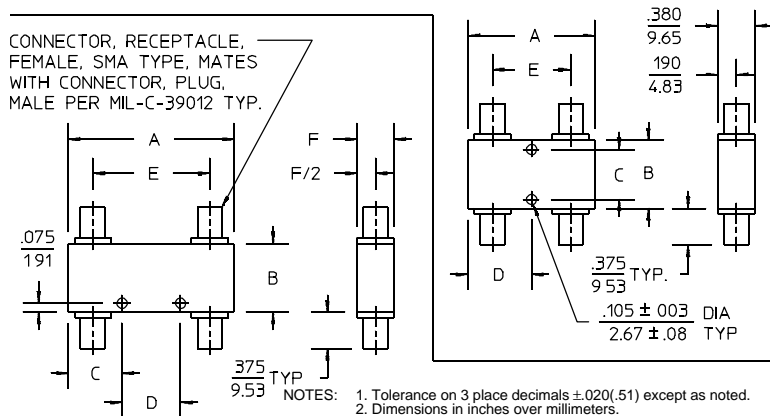
**PRINCIPAL SPECIFICATIONS**

Model Number	Frequency Range, GHz	*Coupling Loss, dB, Max.	Frequency Sensitivity, dB, Max.	Isolation, dB, Min.	Input Power,		VSWR, Max.	Outline Drawing Ref #
					CW, W	Peak, kW		
QHM-2M-75G	0.5 - 1.0	3.1 ± 0.6	± 0.5	28	50	3	1.10:1	4
QHM-2M-1.5G	1.0 - 2.0	3.1 ± 0.6	± 0.5	28	50	3	1.10:1	5
QHM-2M-3G	2.0 - 4.0	3.1 ± 0.6	± 0.5	22	50	3	1.20:1	1
QHM-2M-4G	2.6 - 5.2	3.1 ± 0.6	± 0.5	20	50	3	1.25:1	2
QHM-2M-6G	4.0 - 8.0	3.2 ± 0.7	± 0.5	18	50	3	1.25:1	2
QHM-2M-9G	6.0 - 12.4	3.2 ± 0.7	± 0.5	18	50	3	1.30:1	2
QHM-2M-12G	7.5 - 16.0	3.4 ± 0.9	± 0.6	15	50	2	1.40:1	3
QHM-3M-5G	2.0 - 8.0	3.3 ± 0.8	± 0.4	17	30	3	1.30:1	6
QHM-3M-8G	4.0 - 12.4	3.3 ± 0.8	± 0.4	15	20	2	1.40:1	7

\*Coupling Loss includes insertion loss and frequency sensitivity

OUTLINE	A	B	C	D	E	WT OZ (G)
1	1.150 29.21	.500 12.70	.314 7.98	.580 14.73	.660 16.76	.63 (18)
2	1.000 25.40	.500 12.70	.314 7.98	.500 12.70	.500 12.70	.60 (17)
3	1.000 25.40	.580 14.73	.392 9.96	.500 12.70	.500 12.70	.63 (18)

CONNECTOR, RECEPTACLE, FEMALE, SMA TYPE, MATES WITH CONNECTOR, PLUG, MALE PER MIL-C-39012 TYP.



OUTLINE	A	B	C	D	E	F	WT. OZ. (G)
4	3.060 77.72	.500 12.70	.840 21.34	1.370 34.80	2.560 65.02	.380 9.65	1.20 (34)
5	1.780 45.21	.500 12.70	.640 16.26	.500 12.70	1.280 32.51	.380 9.65	85 (24)
6	2.600 66.04	.750 19.05	.670 17.02	1.260 32.00	2.030 51.56	.440 11.18	1.62 (46)
7	1.720 43.69	.600 15.24	.610 15.49	.500 12.70	1.220 30.99	.500 12.70	1.06 (30)

NOTES: 1. Tolerance on 3 place decimals ±.020(.51) except as noted.  
2. Dimensions in inches over millimeters.  
3. Weights are nominal on all outlines.

**GENERAL SPECIFICATIONS**

Impedance: 50 Ω nom.  
Operating Temperature: - 55° to +85°C  
Other frequency bands: Available options

**General Notes:**

1. The QHM-2M and QHM-3M series of quadrature hybrid couplers covers 500 MHz to 12.4 GHz in octave and multi-octave bands, respectively.
2. These units have been designed using miniature stripline construction to achieve high isolation and low VSWR. They may be used in a wide variety of applications requiring -3 dB power division either in-phase or in phase quadrature (or both). Such signals are often required in mixers, modulators and phase shifters among others.

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