# QHM-4R-G SERIES - 90° POWER DIVIDERS/COMBINERS

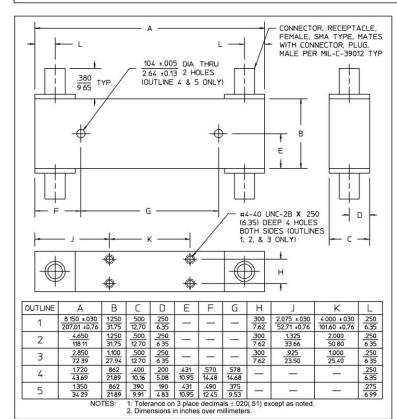
## **TECHNICAL FEATURE**

### **FEATURES**

- 500 MHz to 26.5 GHz
- Multi-Octave Bandwidth
- High Isolation
- Low Insertion Loss
- SMA

Phasing Diagram - A								
	1	2	3	4				
1		0°	- 90°	Isol				
2	0°		Isol	- 90°				
3	- 90°	Isol		0°				
4	Isol	- 90°	0°					

PRINCIPAL SPECIFICATIONS											
Model Number	Frequency Range, GHz	Isolation, dB, Min.	Amplitude Balance, dB, Max.	Phase Tolerance, Max.	Insertion Loss, dB, Max.	VSWR, All Ports, Max.	Weight, oz.(g) Nom.	Outline Dwg #			
QHM-4R-4.7G	0.5 - 9.0	18	1.0	$90^{\circ} \pm 5^{\circ}$	1.3	1.40:1	10.0 (283)	1			
QHM-4R-9.5G	1.0 - 18.0	17	1.0	$90^{\circ} \pm 10^{\circ}$	1.8	1.35:1	5.0 (142)	2			
QHM-4R-10G	2.0 - 18.0	17	1.2	$90^{\circ} \pm 7^{\circ}$	1.2	1.40:1	3.5 (99)	3			
QHM-4R-16G	6.0 - 26.5	14	1.3	$90^{\circ} \pm 8^{\circ}$	1.2	1.60:1	1.7 (48)	4*			
	*Special order.										



## **GENERAL SPECIFICATIONS**

Coupling:-3 dB nom.Impedance: $50 \Omega$  nom.CW Input:1 Watt max.Operating Temperature: $-55^{\circ}$  to  $+85^{\circ}$ C

## **General Notes:**

- 1. The QHM-4R-G series covers 500 MHz to 26.5 GHz using an advanced stripline design for high isolation and low loss.
- 2. Signals applied to any port will split equally between the opposite pair with the adjacent port remaining isolated. The phase relationship is 0° to the port directly opposite and –90° to the port on the diagonal.
- 3. These units comply with MIL-P-23971 and can be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

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