

# QHG-2B SERIES – 90° POWER DIVIDERS/COMBINERS

## TECHNICAL FEATURE

### FEATURES

- 1 to 1000 MHz
- 10% Bandwidth
- Low Insertion Loss
- Low Profile Hermetic Package
- SMD

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

<b>PRINCIPAL SPECIFICATIONS</b>							
Model Number	Center Frequency, $f_0$ , MHz	Frequency Performance, MHz	Insertion Loss, dB, Max.	Isolation, dB, Min.	Amplitude Balance, dB, Max.	Phase Tolerance, Max.	VSWR, (In/Out) Max.
QHG-2B-***B	1 - 500	$\pm 5\% f_0$	0.3	23	0.75	$90^\circ \pm 3^\circ$	1.3:1
QHG-2B-***B	500 - 1000	$\pm 5\% f_0$	0.3	23	0.75	$90^\circ \pm 3^\circ$	1.3:1

For complete model number replace \*\*\* with desired center frequency

**General Notes:**

1. The QHG-2B series includes narrowband devices covering 1 to 1,000 MHz using a special lumped element design to minimize size and cost. The low profile, surface-mount package which houses these 3 dB Quadrature Hybrids is suited for terrestrial and aerospace applications alike where hermeticity and inherent package reliability are essential.

**GENERAL SPECIFICATIONS**

Coupling: - 3 dB nom.  
 Impedance: 50  $\Omega$  nom.  
 CW Input: 4 W max. (1.2:1 VSWRout)  
 (@ 25°C; derated to 1 W @ 85°C)  
 Weight, nominal: 0.1 oz (2.8 g)  
 Operating Temp: - 55° to +85°C

