QHG-22B SERIES - 90° POWER DIVIDERS/COMBINERS

TECHNICAL FEATURE

FEATURES

- 1 to 300 MHz
- 30% Bandwidth Models
- Low Insertion Loss
- Low Profile Heremetic Package

Phasing Diagram - B					
	1	2	3	4	
1		– 90°	0°	Isol.	
2	- 90°		Isol.	0°	
3	0°	Isol.		– 90°	
4	Isol.	0°	– 90°		

PRINCIPAL SPECIFICATIONS				
Model Number	Center Frequency, f _o	Frequency Performance		
QHG-22B-***B For complete mo	1- 300 MHz odel number replace *** with de	± 15% of fo		

General Notes:

1. The QHG-22B series covers 1 to 300 MHz in 30% bandwidth units using a special lumped element design to minimize size and cost. The low 0.175" profile surface-mount package which houses these 3 dB Quadrature Hybrids is ideally suited to terrestrial and aerospace applications alike where hermeticity and inherent package reliability are essential.

GENERAL SPECIFICATIONS

Coupling: -3 dB nom.Impedance: $50 \Omega \text{ nom.}$ Isolation: 20 dB min., 25 dB typ.

Insertion Loss:

<75 MHz: 0.5 dB max., 0.3 typ. >75 MHz: 0.75 dB max., 0.5 typ.

Phase Tolerance: $90^{\circ} \pm 2^{\circ}$ max. Amplitude Balance: 0.5 dB max.,

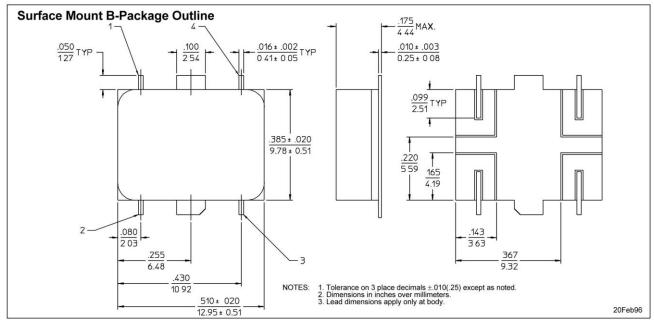
0.25 dB typ.

VSWR (In/Out): 1.3:1 max.

CW Input: 4 W max. (1.2:1 VSWRout)

(@ 25°C; derated to 1W @ 85°C)

Weight, nominal: 0.1 oz (2.8 g) Operating Temp: -55° to +85°C





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