QHG-2B Series - 90° Power Dividers/Combiners

TECHNICAL FEATURE

FEATURES

- 1 to 1000 MHz
- 10% Bandwidth
- Low Insertion Loss
- Low Profile Heremetic 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°						

PRINCIPAL SPECIFICATIONS										
Model Number	Center Frequency, f _o , 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 QHG-2B-***B	1 - 500 500 - 1000	\pm 5% fo \pm 5% fo	0.3 0.3	23 23 with desired cen	0.75 0.75 ter frequency	90° ± 3° 90° ± 3°	1.3:1 1.3:1			

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.

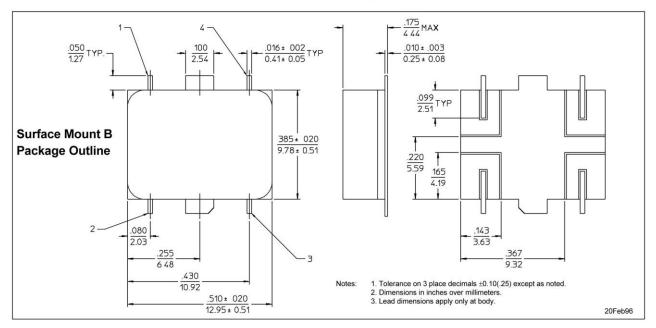
GENERAL SPECIFICATIONS

Coupling: -3 dB nom.Impedance: $50 \Omega \text{ nom.}$

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



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