QHF-22A Series - 90° Power Dividers/Combiners

TECHNICAL FEATURE

FEATURES

- 5 to 300 MHz
- Communications Bandwidths
- Low Insertion Loss
- Low Profile Hermetic Package

PRIN	ICIPAL SPECIFICA	TIONS
Model Number	Center Frequency, f ₀	Frequency Performance
QHF-22A-***B	5 to 300 MHz	30% of fo
For complete mode	el number, replace *** with cen	ter frequency in MHz

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

GENERAL SPECIFICATIONS

Coupling: - 3 dB nom. Impedance: 50 Ω nom. Isolation: 20 dB min. 25 dB typ.

Insertion Loss: 0.75 dB max.

0.3 dB typ.

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

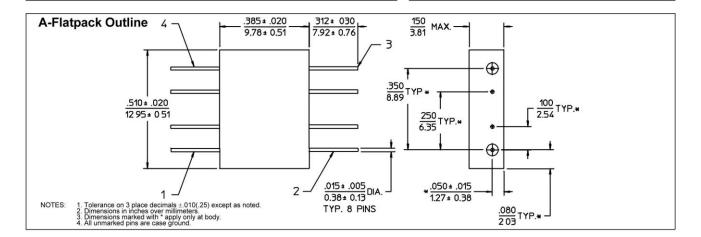
0.25 dB typ.

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

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

(@ 25°C; derated to 1 W @ 85°C) Weight, nominal: 0.1 oz (2.8 g)

Operating Temp: - 55° to +85°C



General Notes:

1. The QHF-22A series covers 5 to 300 MHz using a special lumped element design to minimize package size and cost. This series features a low 0.15" profile package suitable for applications where an ultra-miniature package is essential. The 0.385" by 0.5" flatpack which houses these 3 dB Quadrature Hybrids is suited to both terrestrial and aerospace applications where inherent package reliability and hermeticity are essential

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