

QHF-6L-250 – 90° POWER DIVIDERS/COMBINERS

TECHNICAL FEATURE

FEATURES

- 30 to 500 MHz
- Bandwidth Ratios up to 125:1
- Low Profile, Hi-Rel, Hermetic Package

Phasing Diagram - C				
	1	2	3	4
1		ref.	+90°	Isol.
2	ref.		Isol.	- 90°
3	- 90°	Isol.		ref.
4	Isol.	+90°	ref.	

PRINCIPAL SPECIFICATIONS

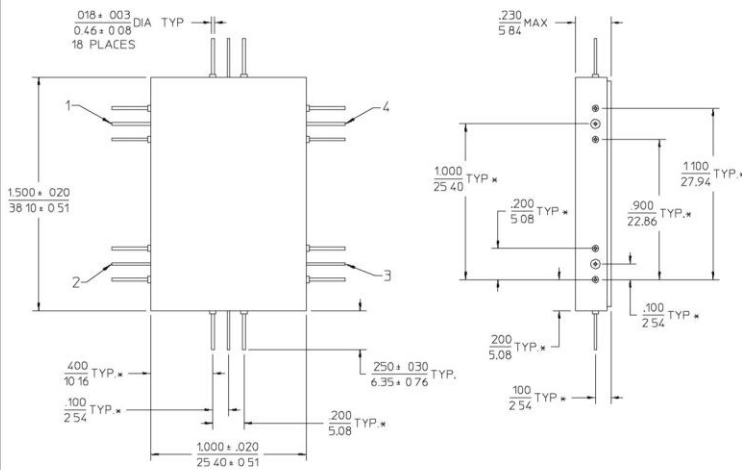
Model Number	Frequency Range, MHz	Insertion Loss, dB, Max.	Isolation, dB, Min.	Phase Balance, Max.	Amplitude Balance, dB, Max.	VSWR, Max.	CW Input*, W
QHF-6L-250	30 - 500	2	18	90° ± 5°	1.3	1.5:1	1

*CW input power with 1.2:1 VSWR_{Out}

GENERAL SPECIFICATIONS

Impedance: 50 Ω nom.
 Coupling: - 3 dB nom.
 Operating Temperature: - 55° to +85°C

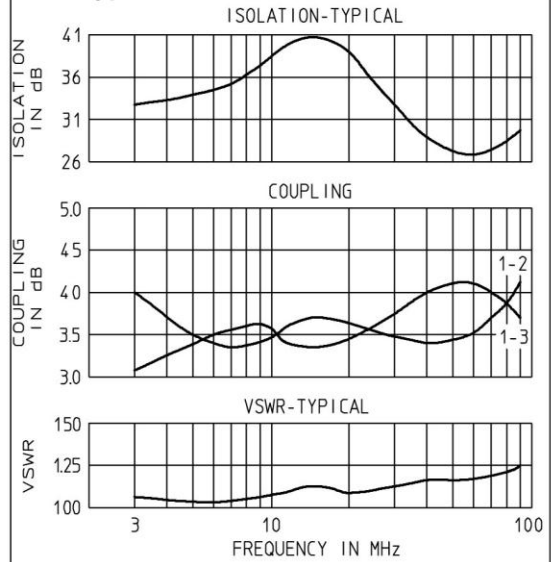
L-Package Outline



NOTES: 1. Tolerance on 3 place decimals ±.010(.25) except as noted.
 2. Dimensions in inches over millimeters.
 3. Dimension marked with * apply only at body.
 4. All unmarked pins are case ground.

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Typical QHF-6L-42 Performance



General Notes:

1. The QHF-6L series of 3 dB quadrature hybrids covers ultra-wide bandwidths using six or more cascaded hybrid sections in a single low profile, hermetic package. This technique results in bandwidth ratios as high as 125:1 making this series ideal for all wide band applications.

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