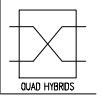


# QHF-6L-250

# 90° POWER DIVIDERS / COMBINERS

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



	1	2	3	4
1		ref.	+90°	Isol.
2	ref.		Isol.	-90°
3	-90°	Isol.		ref.
4	Isol.	+90°	ref.	

## PRINCIPAL SPECIFICATIONS

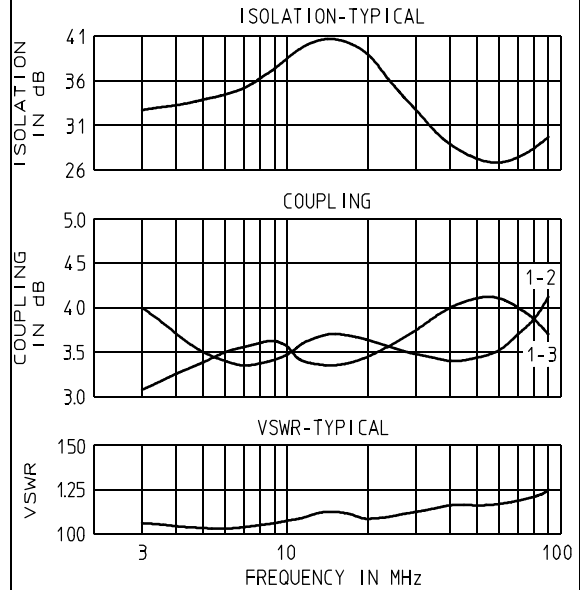
Model Number	Frequency Range, MHz	Insertion Loss, dB, Max.	Isolation, dB, Min.	Phase Balance, Max.	Amplitude Balance, dB, Max.	VSWR, Max.	CW Input*, W
QHF-6L-250	30 - 500	2	18	90° ± 5°	1.3	1.5:1	1

\*CW input power with 1.2:1 VSWR<sub>out</sub>

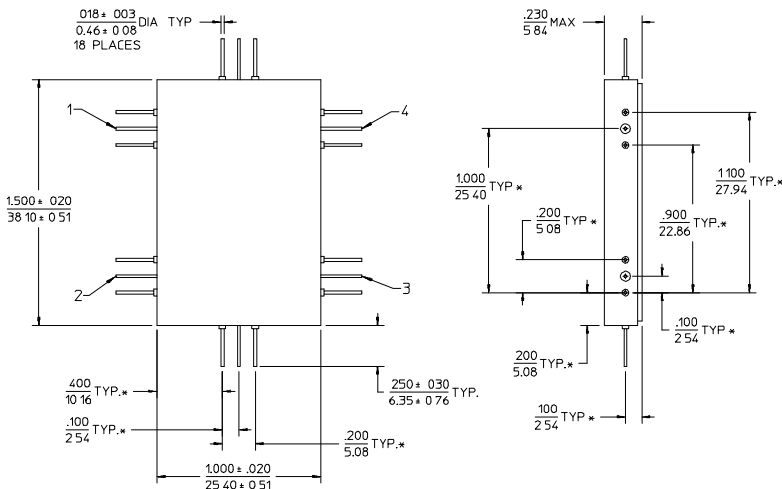
## GENERAL SPECIFICATIONS

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

## Typical QHF-6L-42 Performance



## 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.

22Feb96

## 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.