QHT-2 SERIES - 90° POWER DIVIDERS/COMBINERS

TECHNICAL FEATURE

FEATURES

- 5 to 1000 MHz
- 10% Bandwidth Standard
- Low Insertion Loss
- High Isolation
- TO-5 Package

	Phasing Diagram - A					
	1	2	3	4		
1		ref.	– 90°	Isol.		
2	ref.		Isol.	– 90°		
3	– 90°	Isol.		ref.		
4	Isol.	– 90°	ref.			

Center	
Frequency, fo	Usable Bandwidth, MHz
5 MHz	4.75 - 5.25
30 MHz	28.5 - 31.5
70 MHz	66.5 - 73.5
160 MHz	152 - 168
5 to 1000 MHz	$f_0 \pm 5\%$
	5 MHz 30 MHz 70 MHz 160 MHz

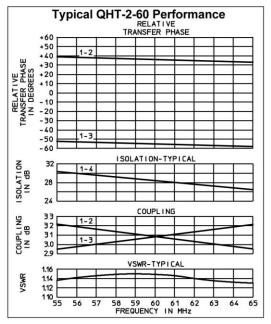
Package Outline (BEAD DIFFERENT COLOR) PORT 2 100 2.54 100 9.14 ± 0.51 100 2.54 100 9.016 0.48 0.41 TYP. 5 PINS PORT 3 200 5.08

1. Tolerance on 3 place decimals ±.010(.25) except as noted.

2. Dimensions in inches over mm.

GENERAL SPECIFICATIONS

- 3 dB nom. Coupling: Isolation: 23 dB min. Insertion Loss: 0.3 dB max. Phase Tolerance: $90^{\circ} \pm 2^{\circ}$ max. Amplitude Balance: 0.75 dB max. Impedance: $50~\Omega$ nom. VSWR: 1.3:1 max. CW Input: 1 Watt max. Weight: 0.1 oz. (2.8 g) nom. -55° to +85°C Operating Temp:



General Notes:

1. The QHT-2 series of single section hybrids covers 1 to 500 MHz using a special lumped element design minimize package size while maintaining high performance.

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