

QHT-3 SERIES – 90° POWER DIVIDERS/COMBINERS

TECHNICAL FEATURE

FEATURES

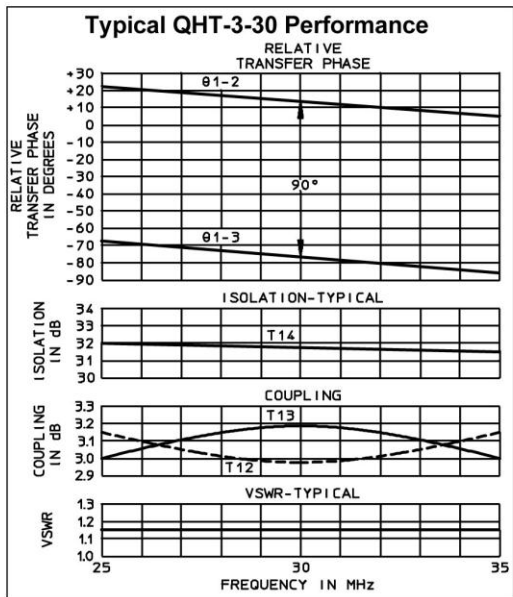
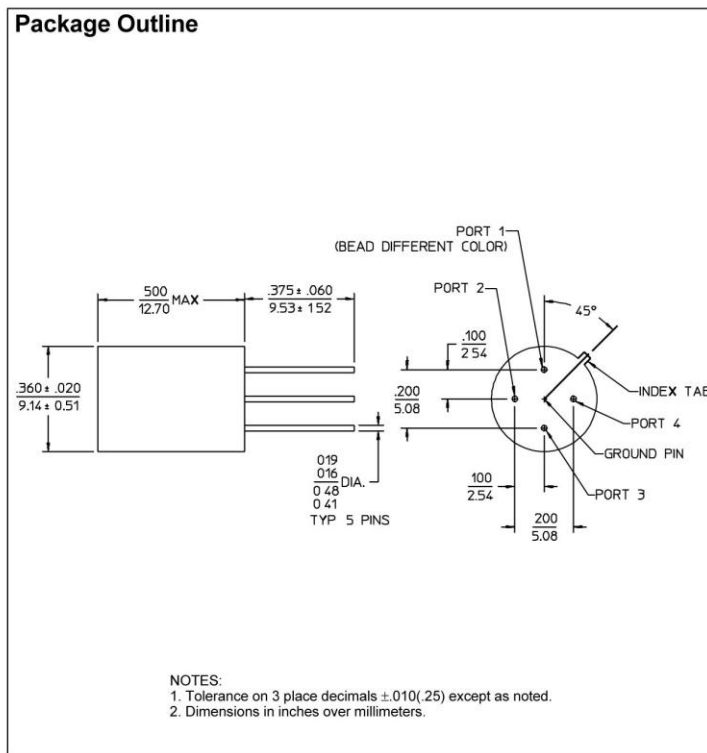
- 1 to 400 MHz
- 30% Bandwidth Standard
- Low Insertion Loss
- High Isolation
- TO-5 Package

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

PRINCIPAL SPECIFICATIONS		
Model Number	Center Frequency, f_o	Usable Bandwidth, MHz
QHT-3-60	60 MHz	51 - 69
QHT-3-***B	1 to 400 MHz	$f_o \pm 15\%$

For complete Model Number replace *** with desired Center Frequency, f_o in MHz.

GENERAL SPECIFICATIONS	
Coupling:	- 3 dB nom.
Isolation:	20 dB min.
Insertion Loss:	0.5 dB max.
Phase Tolerance:	$90^\circ \pm 3^\circ$ max.
Amplitude Balance:	0.5 dB max.
Impedance:	50Ω nom.
VSWR:	1.3:1 max.
CW Input:	1 Watt max.
Weight, nominal:	0.1 oz. (2.8 g)
Operating Temperature:	- 55° to +85°C



General Notes:

1. The QHT-3 series of two-section hybrids covers 1 to 400 MHz using a special lumped element design to minimize size while maintaining high performance. The TO-5 package used is suitable for aerospace applications where inherent package reliability and hermeticity are essential.
2. These units comply with MIL-P-23971 and can be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

20Feb96

