

# QHS-6 SERIES – 90° POWER DIVIDERS/COMBINERS

## TECHNICAL FEATURE

### FEATURES

- 2 to 32 MHz
- Ultra-Wide Bandwidth
- Low Insertion Loss
- Low Ripple
- High Isolation
- PC

<b><u>PRINCIPAL SPECIFICATIONS</u></b>								
Model Number	Frequency Range, MHz	Bandwidth Ratio	Amplitude Balance, dB, Max.	Insertion Loss, dB, Typ. Max.	Isolation, dB, Min.	Phase Tolerance	VSWR, Max.	
QHS-6-17	2 - 32	16:1	1.0	1.0 1.5	20	90° ± 3°	1.30:1	

<b><u>GENERAL SPECIFICATIONS</u></b>	
Coupling:	– 3 dB nom.
Impedance:	50 Ω nom.
CW Input:	1 Watt max.
Weight, nominal:	1.1 oz (31 g)
Operating Temperature:	– 55° to +85°C

**General Notes:**  
 The QHS-6 series of multi-section wideband quadrature hybrids covers 2 to 32 MHz using a special lumped element design to minimize size while preserving its excellent electrical performance characteristics.

<b>Phasing Diagram - C</b>				
	1	2	3	4
1		ref.	+90°	Isol.
2	ref.		Isol.	– 90°
3	– 90°	Isol.		ref.
4	Isol.	+90°	ref.	

