



Phasing Diagram - B				
	1	2	3	4
1		- 90°	0°	Isol.
2	- 90°		Isol.	0°
3	0°	Isol.		- 90°
4	Isol.	0°	- 90°	

PRINCIPAL SPECIFICATIONS		
Model Number	Center Frequency, f_0	Frequency Performance
QHG-22B-***B	1- 300 MHz	$\pm 15\%$ of f_0
For complete model number replace *** with desired center frequency		

General Notes:

1. The QHG-22B series covers 1 to 300 MHz in 30% bandwidth units using a special lumped element design to minimize size and cost. The low 0.175" profile surface-mount package which houses these 3 dB Quadrature Hybrids is ideally suited to terrestrial and aerospace applications alike where hermeticity and inherent package reliability are essential.

GENERAL SPECIFICATIONS	
Coupling:	- 3 dB nom.
Impedance:	50 Ω nom.
Isolation:	20 dB min., 25 dB typ.
Insertion Loss:	
<75 MHz:	0.5 dB max., 0.3 typ.
>75 MHz:	0.75 dB max., 0.5 typ.
Phase Tolerance:	90° \pm 2° max.
Amplitude Balance:	0.5 dB max., 0.25 dB typ.
VSWR (In/Out):	1.3:1 max.
CW Input:	4 W max. (1.2:1 VSWR _{out}) (@ 25°C; derated to 1W @ 85°C)
Weight, nominal:	0.1 oz (2.8 g)
Operating Temp:	- 55° to +85°C

