

QHZ-23B SERIES – 90° POWER DIVIDERS/COMBINERS

TECHNICAL FEATURE

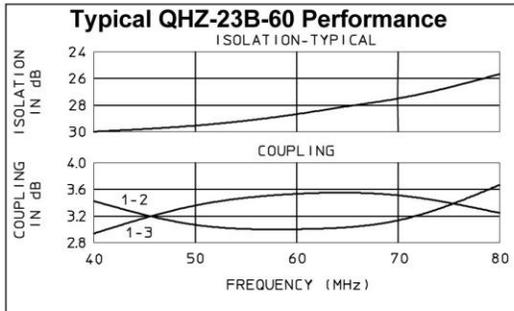
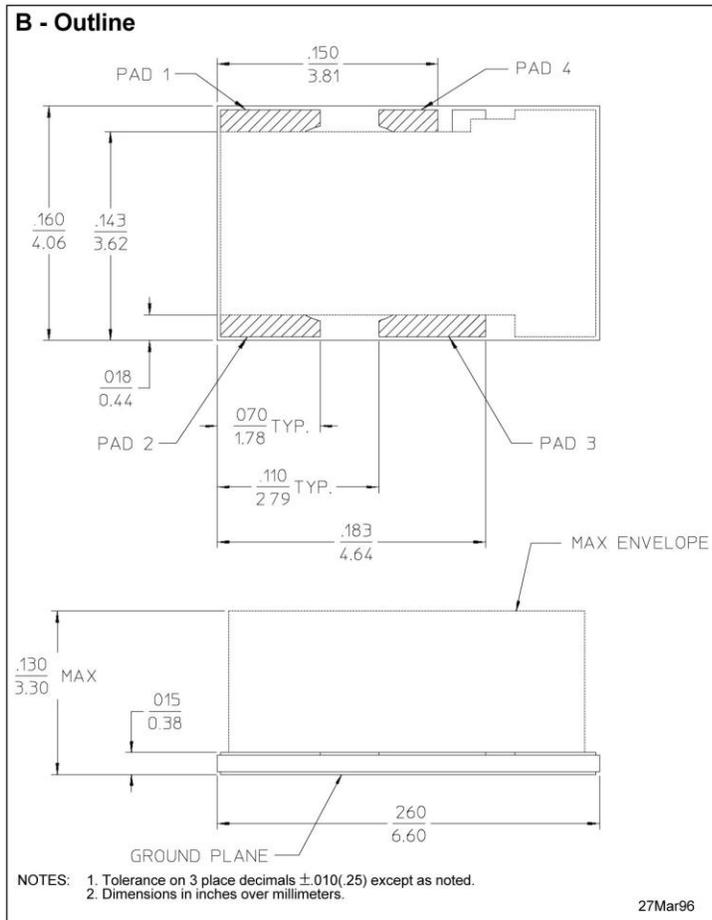
FEATURES

- 30 to 200 MHz
- Octave Bandwidth
- Low Insertion Loss
- Low Profile and Weight
- Case Free Package

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

<u>PRINCIPAL SPECIFICATIONS</u>		
Model Number	Center Frequency	Frequency Performance
QHZ-23B-70	70 MHz	47 - 94 MHz
QHZ-23B-***B	30 to 200 MHz	Octave
For complete Model Number replace *** with desired Center Frequency in MHz.		

<u>GENERAL SPECIFICATIONS</u>	
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 dB typ.
> 75 MHz:	0.75 dB max., 0.5 dB typ.
Phase Tolerance:	90° ± 3° max.
Amplitude Balance:	1 dB max.
VSWR (In/Out):	1.3:1 max.
CW Input:	1 W max.
Weight, nominal:	0.007 oz (200 mg)
Operating Temp.:	- 55° to +85°C



General Notes:

1. The QHZ-23B series of *CaseFree* 3 dB Quadrature Hybrids has been designed for size and process compatibility with MMIC and similar devices. The series presents a unit profile height of less than 0.130" allowing mounting alongside other miniature components within a low profile hermetic housing.
2. High performance and octave bandwidth remains uncompromised by the units' miniature characteristics and very low weight.
3. All units can be supplied screened for compliance with specifications you designate for aerospace applications requiring the highest available reliability.