

Phasing Diagram - A

	1	2	3	4
1		0°	-90°	Isol.
2	0°		Isol.	-90°
3	-90°	Isol.		0°
4	Isol.	-90°	0°	

PRINCIPAL SPECIFICATIONS

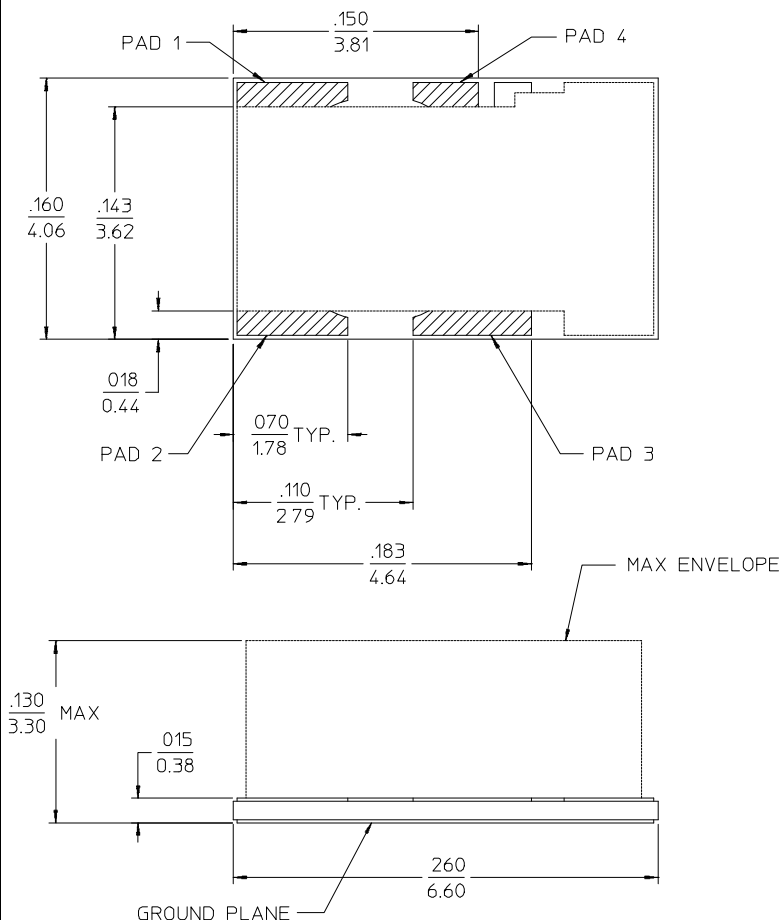
Model Number	Center Frequency	Frequency Performance
QHZ-23B-70	70 MHz	47 - 94 MHz
QHZ-23B-***B	30 to 200 MHz	Octave

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

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 dB typ.
> 75 MHz:	0.75 dB max., 0.5 dB typ.
Phase Tolerance:	90° $\pm$ 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

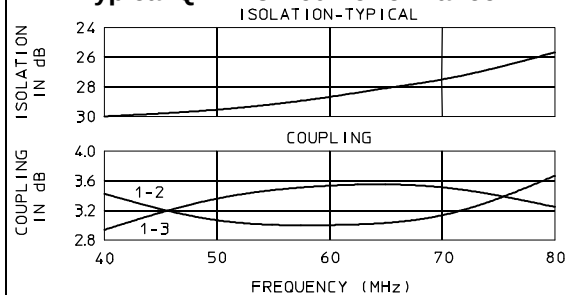
B - Outline



NOTES: 1. Tolerance on 3 place decimals ± 0.010 (.25) except as noted.
2. Dimensions in inches over millimeters.

27Mar96

Typical QHZ-23B-60 Performance



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.