

TECHNICAL FEATURE

FEATURES

- 100 MHz
- 30% Bandwidth
- Space Qualified
- SMA

PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range MHz	Insertion Loss dB Max.	Amplitude Balance dB Max.	Phase Balance Max.	VSWR, Max. Input/Output	Isolation dB Min.	Input Power Max.
QHM-23-100 SQ	85 - 115	0.7	0.5	±2°	1.3:1	20	1 W

GENERAL NOTES

The QHM-23-100 SQ 90° quadrature hybrid covers a frequency range of 85 - 115 MHz using a special lumped element design to reduce the size while maintaining high performance. This device has been designed in accordance with Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices".

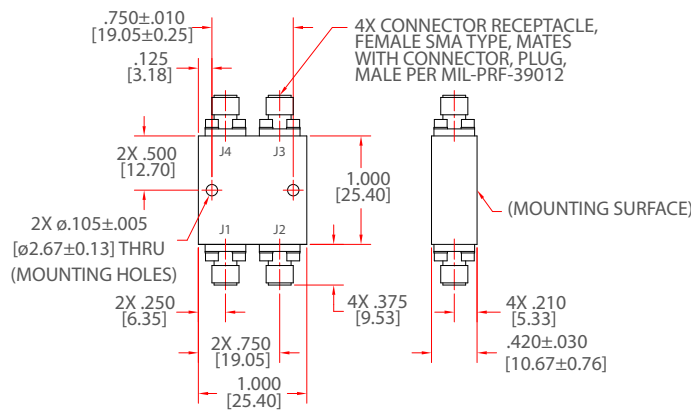
GENERAL SPECIFICATIONS

Size1.00" x 1.00" x 0.420"
 Coupling.....3.0 dB nom.
 Impedance 50 OHM nom.
 Operating Temperature..... -55° to +85° C

TRUTH TABLE

	1	2	3	4
1		-90°	0°	Isolation
2	-90°		Isolation	0°
3	0°	Isolation		-90°
4	Isolation	0°	-90°	

PACKAGE OUTLINE



NOTES:

1. TOLERANCE ON 3 PLACE DECIMALS ±.020 [.51 mm] EXCEPT AS NOTED.
2. DIMENSIONS = INCHES [mm]
3. METRIC EQUIVALENTS ARE TO THE NEAREST .01 mm.
4. WEIGHT: 1.10 OZ. [31 grams] MAX.