

90° QUADRATURE HYBRID QHM-23-100SQ



TECHNICAL FEATURE

FEATURES

• 100 MHz

· Space Qualified

• 30% Bandwidth

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-2 3 -100 SQ	85 - 115	0.7	0.5	±2°	1.3:1	20	1 W		

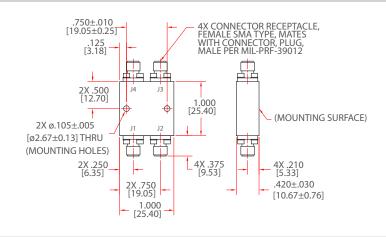
GENERAL NOTES

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

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

- 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.

Microwave Solutions

Merrimac Industries 41 Fairfield Place, West Caldwell, NJ 07006

+ 1 973-575-1300, 191309 info@craneae.com www.craneae.com Page 1 of 1 QHM-23-100 SQ Rev. 1, 10/26/2022

DS_Quad Hybrid_QHM23100SQ_10262022.indd. This revision supersedes all previous releases. All technical information is believed to be accurate, but no responsibility is assumed for errors. We reserve the right to make changes in products or specifications without notice. Copyright © 2022 Crane Electronics, Inc. All rights reserved.