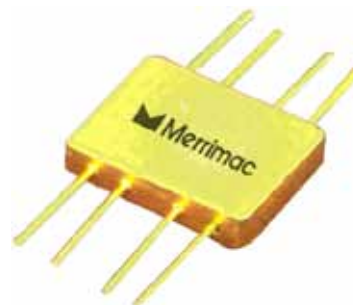


# 90° QUADRATURE HYBRID - QHF-2A-100 SQ

## TECHNICAL FEATURE

### FEATURES

- Space Qualified
- 95 - 105 MHz, 10% Bandwidth
- Flatpack



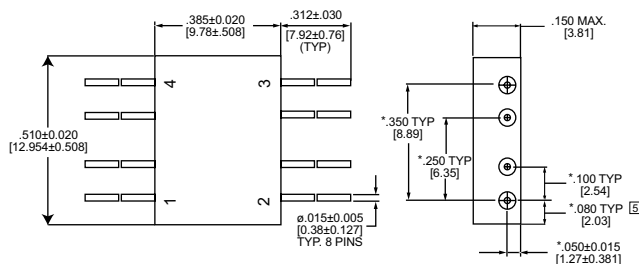
### PERFORMANCE

Frequency Range .....	95 - 105 MHz
Isolation .....	23 dB min., 27 dB typ.
Insertion Loss .....	0.3 dB max., 0.2 dB typ.
Amplitude Balance .....	0.75 dB max., 0.5 dB typ.
Phase Balance .....	±2° max., 1° typ.
VSWR Input/Output.....	1.3:1 max., 1.2:1 typ.
Input Power .....	1 W max.
Coupling .....	3.0 dB nom.
Impedance.....	50 OHM nom.
Operating Temperature .....	-55° to +85° C

### DESCRIPTION

The QHF-2A-100 SQ 90° quadrature hybrid covers a frequency range of 95 - 105 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".

## PACKAGE OUTLINE



Phasing Diagram A				
	1	2	3	4
1		0°	-90°	Isolation
2	0°		Isolation	-90°
3	-90°	Isolation		0°
4	Isolation	-90°	0°	

- NOTES:**
1. TOLERANCE ON 3 PLACE DECIMALS ±.010 [.25mm] EXCEPT AS NOTED.
  2. MAX. IS LARGEST DIMENSION ALLOWED.
  3. DIMENSIONS = INCHES [mm]
  4. METRIC EQUIVALENTS ARE TO THE NEAREST .01mm.
  5. ALL LEADS TO BE WITHIN ± .010 [.25mm] OF EACH OTHER AT THIS DIMENSION.
  6. DIMENSIONS MARKED WITH \* APPLY ONLY AT BODY.
  7. ALL UNMARKED PINS ARE CASE GROUND.

