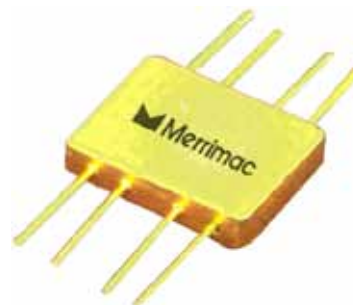


90° QUADRATURE HYBRID - QHF-2A-100 SQ

TECHNICAL FEATURE

FEATURES

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



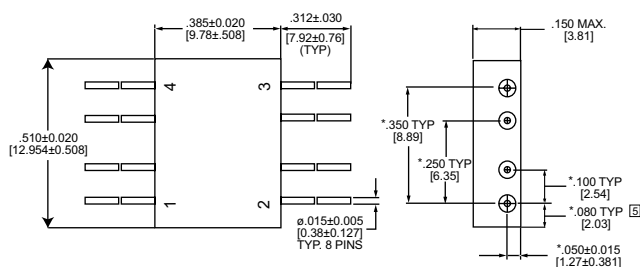
PERFORMANCE

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.

