



- SPACE QUALIFIED
- 6.9 - 8.5 GHz, QUADRATURE HYBRID, SMA



TECHNICAL DESCRIPTION / APPLICATION

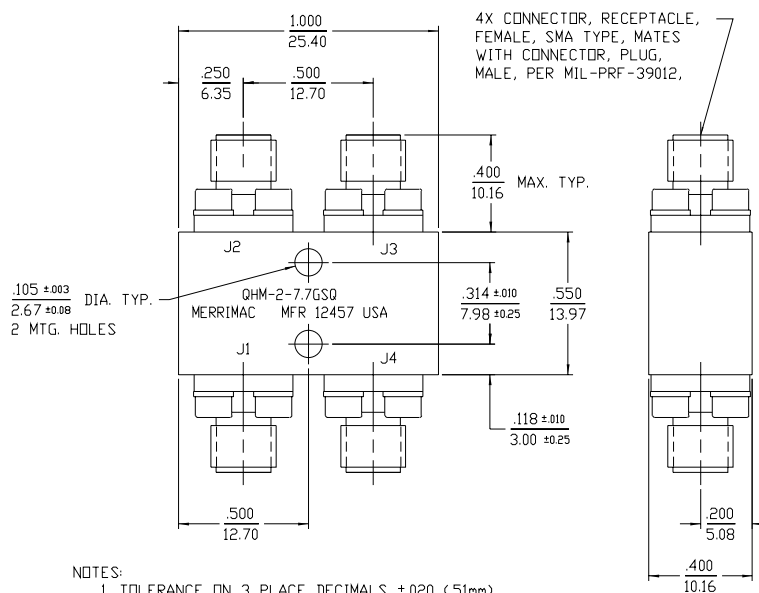
SERIES 05

The QHM-2-7.7G SQ Quadrature Hybrid Divider/Combiner covers 6.9 - 8.5 GHz. It uses a rugged stripline design which provides high isolation and low VSWR. This unit has been designed, manufactured and qualified per Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices".

GENERAL SPECIFICATIONS

| MODEL NUMBER | FREQUENCY RANGE GHz | ISOLATION dB MIN. | INSERTION LOSS MAX. | AMPLITUDE BALANCE MAX. | VSWR MAX. |
|---------------|------------------------|----------------------|------------------------|---------------------------|--------------|
| QHM-2-7.7G SQ | 6.9 - 8.5 | 18 dB | 0.5 dB | 0.5 dB | 1.25:1 |
| PHASE BALANCE | CW INPUT POWER | IMPEDANCE NOM. | OPERATING TEMPERATURE | WEIGHT MAX. | |
| 90° ± 4° | 10 W | 50 OHM | -55° to +85 ° C | .75 oz. | |

PACKAGE OUTLINE



- NOTES:
1. TOLERANCE ON 3 PLACE DECIMALS ±.020 (.51mm) EXCEPT AS NOTED.
 2. MAX. IS LARGEST DIMENSION ALLOWED.
 3. DIMENSIONS=INCHES
 4. METRIC EQUIVALENTS ARE TO THE NEAREST .01mm.
 5. WEIGHT: 0.75 OZ MAX.