

TECHNICAL FEATURE

FEATURES

- Space Qualified
- 29.5 - 30 GHz
- Quadrature Hybrid, SMA

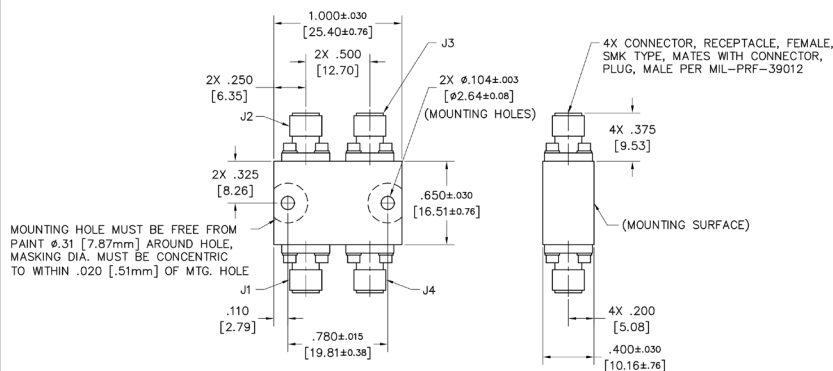
PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range GHz	Isolation dB Min.	Insertion Loss, dB Max.	Amplitude Balance dB Max.	VSWR Max. In	Phase Balance dB Max.	CW Input Power	Impedance Nom.	Operating Temperature
QHK-2-30G SQ	29.5 - 30	18	0.8	0.5	1.3:1	90° ± 7°	5 W	50 OHM	-55° to +85° C

GENERAL NOTES

The QHK-2-30G SQ Quadrature Hybrid Divider/Combiner covers 29.5 - 30 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".

PACKAGE OUTLINE



NOTES:

1. TOLERANCE ON 3 PLACE DECIMALS ±.020 [.51mm] EXCEPT WHERE NOTED.
2. MAX. IS LARGEST DIMENSION ALLOWED.
3. DIMENSIONS = INCHES [mm]
4. METRIC EQUIVALENTS ARE TO THE NEAREST .01mm
5. EXTERNAL FINISH:
EXTERIOR SURFACES: FLAT BLACK POLYURETHANE COATING AEROGLAZE Z306 (EXCEPT MOUNTING SURFACE, TOP MOUNTING HOLE AREA AND AREA AROUND VENT HOLES AND VENT SLOT).
MOUNTING AND UNPAINTED SURFACE FINISH: CHEMICAL FILM PER MIL-DTL-5541, CLASS 3.
CONNECTOR FINISH: PASSIVATED.
6. WEIGHT: 0.88 OZ. [25g] MAX.