

### TECHNICAL FEATURE

#### FEATURES

- Space Qualified
- 1.0 - 2.0 GHz

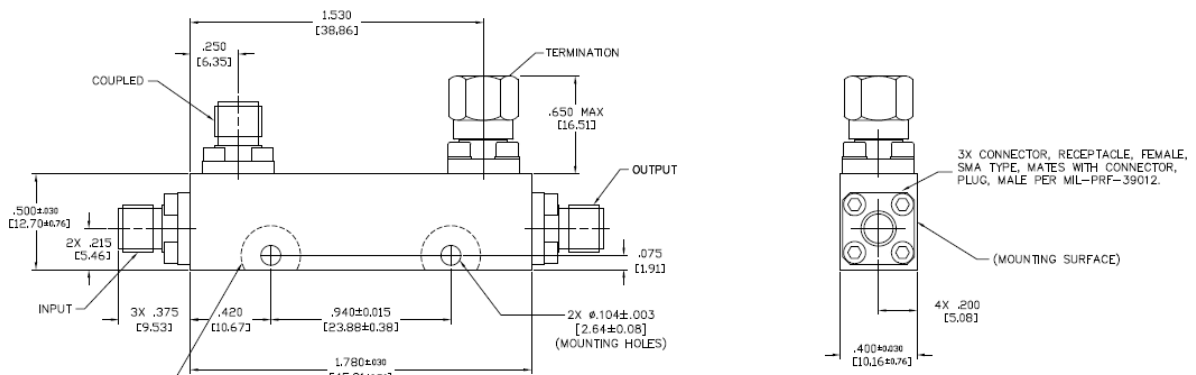
### PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range GHz	Frequency Sensitivity dB Max.	Coupling dB	Insertion Loss, dB Max.	Directivity dB Min.	VSWR Main Max.	VSWR Coupled Max.	CW Power Rating Main Line	Weight Max.
CSM-20-1.5G SQ	1.0 - 2.0	± 0.8	20 +/- 1.0	0.2	25	1.15:1	1.15:1	5 Watts	35g.

### TECHNICAL DESCRIPTION / APPLICATION

The CSM-20-1.5G SQ directional coupler covers 1.0 - 2.0 GHz with a stripline design. This offers low transmission loss and excellent VSWR. This unit has been designed, manufactured and qualified per Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices."

### PACKAGE OUTLINE



MOUNTING HOLE MUST BE FREE FROM PAINT  $\phi$ .31 [7.87mm] AROUND HOLE. MASKING DIA. MUST BE CONCENTRIC TO WITHIN  $\phi$ .020 [5.1mm] OF MTG. HOLE.

#### NOTES:

1. TOLERANCE ON 3 PLACE DECIMALS  $\pm$ .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: 1.24 OZ. [35g] MAX.