

### TECHNICAL FEATURE

#### FEATURES

- Space Qualified
- 17.7 - 21.2 GHz

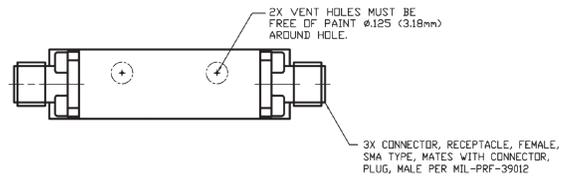
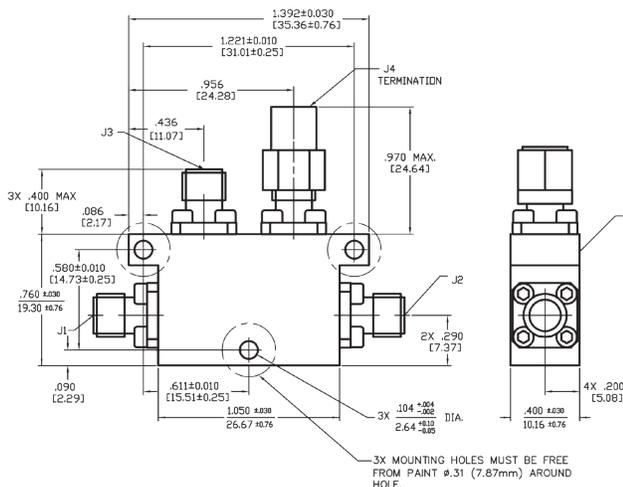
### PRINCIPAL SPECIFICATIONS

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 Nom.
CTM-10-19.5G SQ	17.7 - 21.2	+ / - 1.0	10 +/- 1	0.9	14	1.45:1	1.45:1	10 Watts	1 oz.

### TECHNICAL DESCRIPTION / APPLICATION

The CTM-10-19.5G SQ directional coupler covers 17.7 - 21.2 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



#### NOTES:

1. TOLERANCE ON 3 PLACE DECIMALS ±0.020 (.51mm) EXCEPT AS NOTED.
2. DIMENSIONS = INCHES [mm]
3. METRIC EQUIVALENTS ARE TO THE NEAREST .01mm.
4. EXTERNAL FINISH:  
 EXTERIOR SURFACES: FLAT BLACK POLYURETHANE COATING  
 AERODGLAZE Z306 OR Z307 EXCEPT MOUNTING SURFACE, AREAS AROUND MOUNTING HOLES AND VENT HOLES.  
 MOUNTING SURFACE FINISH:  
 CHEMICAL FILM PER MIL-DTL-5541, CLASS 3.  
 CONNECTOR FINISH: PASSIVATED.