

### TECHNICAL FEATURE

#### FEATURES

- Space Qualified
- 3.4 - 4.2 GHz
- 2 x 4 - Way

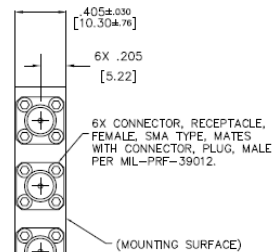
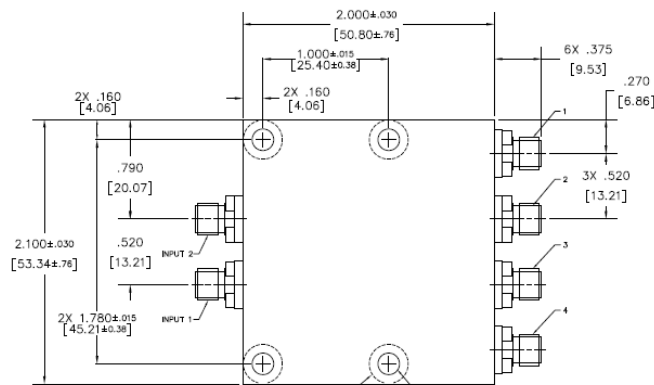
### PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range GHz	Isolation dB Min.	Insertion Loss, dB Max.	Phase Balance Max.	Amplitude Balance dB Max.	VSWR Max.		CW Input, W, Load VSWR out 1.2:1	Weight Max.
						In	Out		
PDM-241-3.8G SQ	3.4 - 4.2	20	0.6	6°	0.3	1.22:1	1.22:1	1	86 g.

### TECHNICAL DESCRIPTION / APPLICATION

The PDM-241-3.8G SQ In-Phase Power Divider covers 3.4 - 4.2 GHz. It uses a 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



MOUNTING HOLE MUST BE FREE FROM PAINT  $\phi$ .31 [7.87mm] AROUND HOLE, MASKING DIA. MUST BE CONCENTRIC TO WITHIN  $\phi$ .020 [51mm] OF MTG. HOLE.

4X  $\phi$ .172±.003 [2.64±0.08] (MOUNTING HOLES)

#### 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: 3.03 OZ. [86g] MAX.