

### TECHNICAL FEATURE

#### FEATURES

- Space Qualified
- 0.05 - 0.30 GHz
- 2 - Way

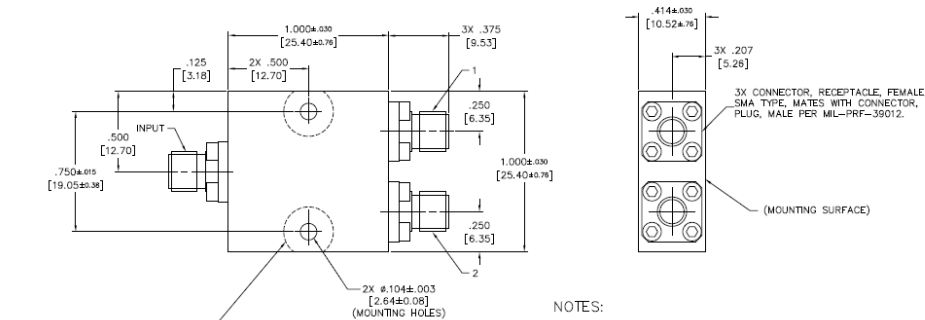
### PRINCIPAL SPECIFICATIONS

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		
PDML-21-175 SQ	0.05 - 0.30	20	1.0	2°	0.2	1.3:1	1.3:1	1	31 g.

### TECHNICAL DESCRIPTION / APPLICATION

The PDML-21-175 SQ In-Phase Power Divider covers 0.05 - 0.30 GHz. with a special lumped element design to reduce size, while maintaining high performance. 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 MFG. 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: 1.09 OZ. [31g] MAX.