

# 0° DIVIDERS/COMBINERS - PDF-2A-50 SQ

## TECHNICAL FEATURE

### FEATURES

- Space Qualified
- 1 - 100 MHz
- 2 Way Flatpack



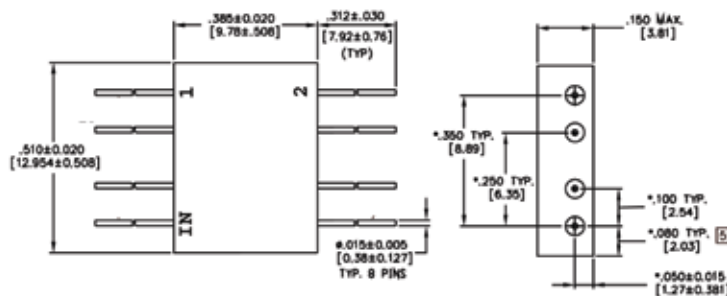
### PERFORMANCE

Frequency Range .....	1 - 100 MHz
Isolation .....	30 min., 35 typ. dB
Insertion Loss .....	0.7 max., 0.5 typ. dB
Amplitude Balance .....	0.15 max., 0.1 typ. dB
Phase Balance .....	2° max., 1° typ.
VSWR Input/Output .....	1.3:1 max., 1.2:1 typ.
Input Power .....	1 W max.
Coupling .....	3.0 dB nom.
Impedance .....	50 Ohm nom.
Internal Power Dissipation .....	50 mW max.
Operating Temperature .....	-55° to +85° C

### DESCRIPTION

The PDF-2A-50 SQ 2 way power divider/combiner covers a frequency range of 1 to 100 MHz using a special lumped element design to reduce the size while maintaining high performance. This device has been designed in accordance with Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices".

## PACKAGE OUTLINE



- NOTES:**
1. TOLERANCE ON 3 PLACE DECIMALS ±.010 [.25mm] EXCEPT AS NOTED.
  2. MAX. IS LARGEST DIMENSION ALLOWED.
  3. DIMENSIONS = INCHES [mm]
  4. METRIC EQUIVALENTS ARE TO THE NEAREST .01mm.
  5. ALL LEADS TO BE WITHIN ±.010 [.25mm] OF EACH OTHER AT THIS DIMENSION.
  6. DIMENSIONS MARKED WITH \* APPLY ONLY AT BODY
  7. ALL UNMARKED PINS ARE CASE GROUND.