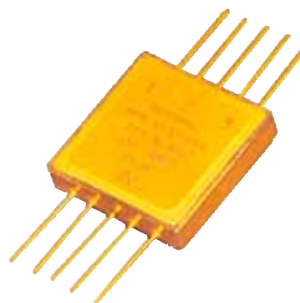


# 0/180° HYBRID JUNCTION - HJF-C-500 SQ

## TECHNICAL FEATURE

### FEATURES

- Space Qualified
- 2 - 1000 MHz
- Broadband, High Isolation



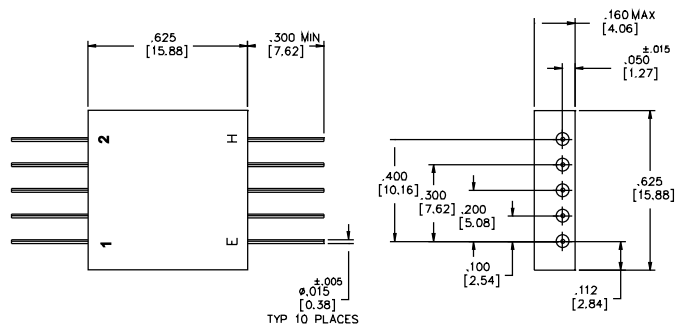
### PERFORMANCE

Frequency Range .....	2 - 1000 MHz
Isolation .....	20 dB min., 25 dB typ.
Insertion Loss .....	1.5 dB max., 1.2 dB typ.
Amplitude Balance .....	0.5 dB max., 0.2 dB typ.
Phase Balance .....	± 7° max, ±5° 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.
Operating Temperature .....	-55° to +85° C

### DESCRIPTION

The HJF-C-500 SQ Hybrid Junction covers 2 - 1000 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 ±.020 (.51mm) EXCEPT AS NOTED.
2. DIMENSIONS =  $\frac{\text{INCHES}}{[mm]}$
3. METRIC EQUIVALENTS ARE TO THE NEAREST .01mm.
4. WEIGHT: 5.0 GRAMS MAX.
5. PINS NOT MARKED ARE GROUND.

LABEL	1	E	2	H
H	0° REF	ISO	0°	
E	0° REF		-180	ISO

