

# 11 dB Bi-directional Coupler 10 - 500 MHz

**CH-138**

V2.00

## Features

- Constant Coupling — Within  $\pm 0.5$  dB Max

## Guaranteed Specifications\* (From $-54^{\circ}\text{C}$ to $+85^{\circ}\text{C}$ )

<b>MODEL</b>	<b>CH-138</b>
<b>Frequency Range</b>	10-500 MHz
<b>Coupling (Input to Output)</b>	$10.8 \pm 1.0$ dB
<b>Coupling Flatness</b>	$\pm 0.5$ dB Max
<b>VSWR (All Ports)</b>	
10-500 MHz	1.8:1 Max
25-200 MHz	1.5:1 Max
<b>Directivity (Both Directions)</b>	17 dB Min
<b>Main Line Loss**</b>	1.6 dB Max

## Operating Characteristics

**Input Power** 1.0 Watt Max

### Environmental

MIL-STD-202 screening available.

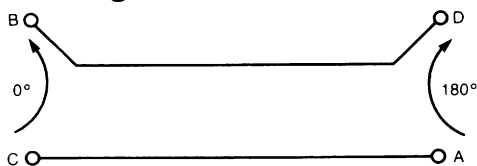
### Pin Configuration

CH-138 A; P8, B; P2, C; P5, D; P11.  
All other pins are ground.

\* All specifications apply with 50 ohm source and load impedance.  
This product contains elements protected by United States Patent  
Number 3,426,298.

\*\*Includes theoretical power split.

## Functional Diagram

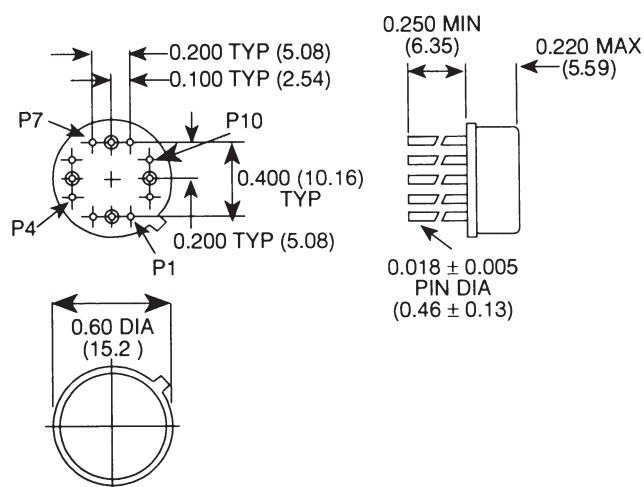


## Ordering Information

**Part Number**  
CH-138 PIN

**Package**  
TO-8-2

## TO-8-2



Bottom of Case is AC Ground.

Dimensions in ( ) are in mm.

Unless Otherwise Noted: .xxx =  $\pm 0.010$  (.xx =  $\pm 0.25$ )  
.xx =  $\pm 0.02$  (.x =  $\pm 0.5$ )

## Typical Performance

