

# 20 dB Directional Coupler 5 - 1000 MHz

CH-140

V2.00

## Features

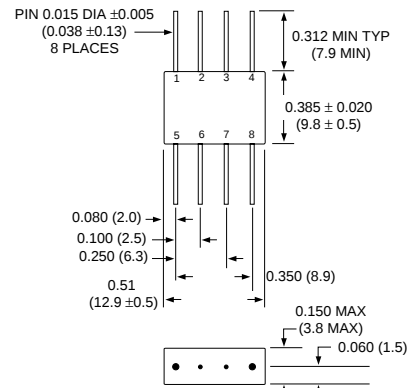
- Broadband Flat Coupling
- 0.3 dB Typical Insertion Loss
- 30 dB Typical Directivity

## Guaranteed Specifications\*

(From - 55°C to + 85°C)

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| <b>Frequency Range</b>                   | 5-1000 MHz                                    |
| <b>Coupling<br/>(Input to Output)</b>    | 19.75 ± 1 dB                                  |
| <b>Coupling Flatness</b>                 | ± 0.5 dB                                      |
| <b>VSWR (All Ports)</b>                  | 1.35:1 Max                                    |
| <b>Directivity<br/>(Both Directions)</b> | 5-800 MHz 20 dB Min<br>800-1000 MHz 17 dB Min |
| <b>Main Line Loss**</b>                  | 0.75 dB Max                                   |

## FP-2



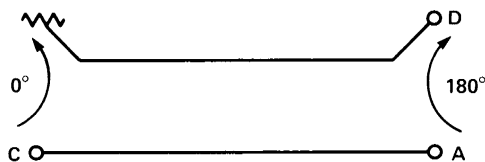
Dimensions in ( ) are in mm.  
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)  
.xx = ±0.02 (.x = ±0.5)  
WEIGHT (APPROX.): 0.09 OUNCES 2.5 GRAMS

## Operating Characteristics

|                                       |                                                         |
|---------------------------------------|---------------------------------------------------------|
| <b>Input Power</b>                    | 3.0 Watts Max                                           |
| <b>Internal Power<br/>Dissipation</b> | 0.25 Watts                                              |
| <b>Environmental</b>                  | MIL-STD-883 screening available.                        |
| <b>Pin Configuration</b>              | C; P1, A; P5, D; P8.<br>Case and all other pins 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

| Model No.  | Package  |
|------------|----------|
| CH-140 PIN | Flatpack |

## Typical Performance

