

# M/A-COM 11 dB Directional Coupler

## 10 - 500 MHz

### Features

- Space Qualified version of CH-134
- Designed to meet the Stringent Reliability Standards of Space Hardware
- 50 Ohms Nominal Impedance
- Constant Coupling - Within  $\pm 0.5$  dB Max.

### Description

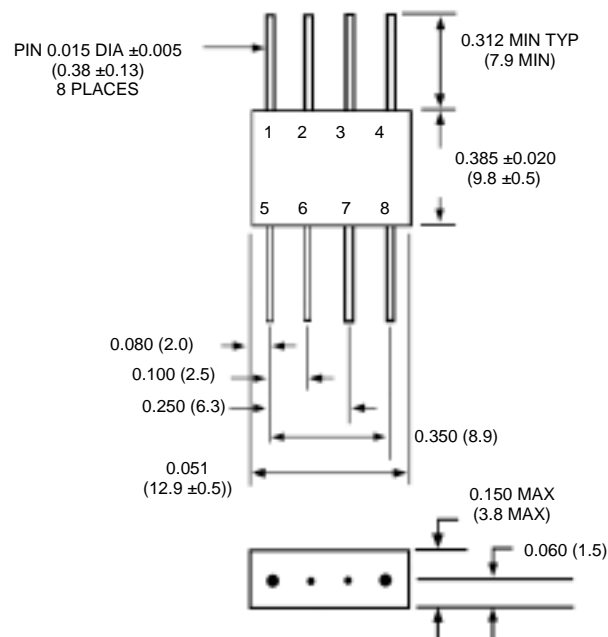
M/A-COM's CH35-0009-S is a unique type of 180° hybrid.

### Absolute Maximum Ratings<sup>1</sup>

| Parameter             | Absolute Maximum |
|-----------------------|------------------|
| Max. Input Power      |                  |
| Operating Temperature | -45°C to +85°C   |
| Storage Temperature   | -65°C to +125°C  |

1. Operation of this device above any one of these parameters may cause permanent damage.

### FP-2



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

### Electrical Specifications, $T_A = +25^\circ\text{C}$

| Parameter         | Frequency   | Units | Min. | Typ.                    | Max.      |
|-------------------|-------------|-------|------|-------------------------|-----------|
| Coupling          | 10-500 MHz  | dB    | -    | 10.8 dB<br>$\pm 0.7$ dB | -         |
| Coupling Flatness | 10-500 MHz  | dB    | -    | -                       | $\pm 0.5$ |
| Directivity       | 10-500 MHz  | dB    | 20   | -                       | -         |
| VSWR              | 10-25 MHz   | -     | -    | -                       | 1.8:1     |
|                   | 25-200 MHz  | -     | -    | -                       | 1.5:1     |
|                   | 200-500 MHz | -     | -    | -                       | 1.8:1     |
| Main line Loss    | 10-500 MHz  | -     | -    | -                       | 1.6       |

Specifications subject to change without notice.

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Visit [www.macom.com](http://www.macom.com) for additional data sheets and product information.

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