

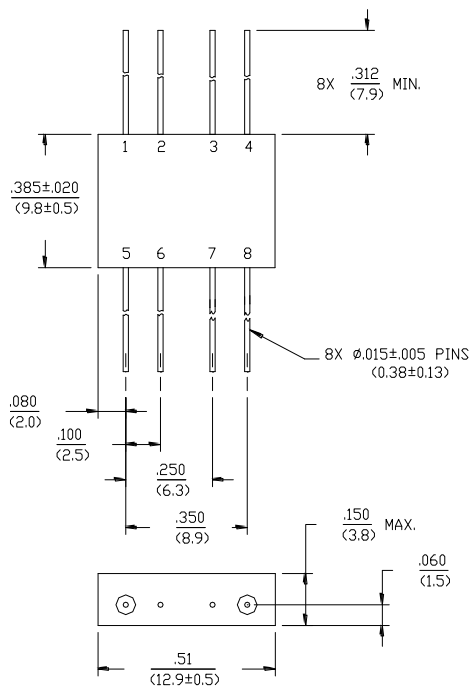
Features

- Constant Coupling - within ± 0.5 dB max.
- MIL-STD-202 Screening Available

Description

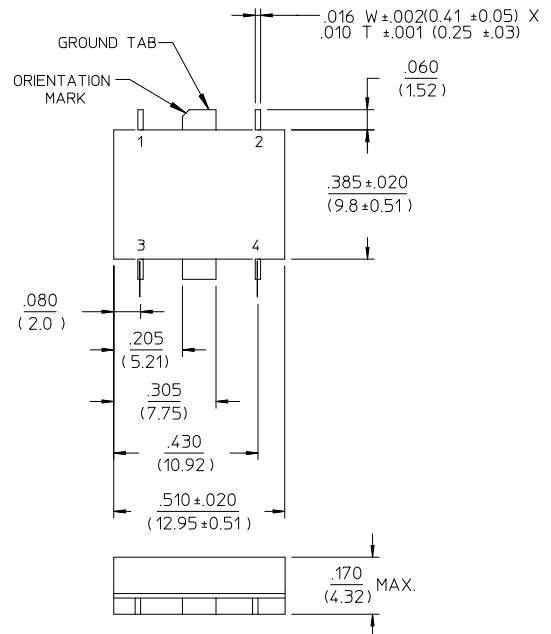
Bi-Directional couplers offer the ability to couple the power in two directions while maintaining directivity.

FP-2 (CH-134)



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 2.55 GRAMS

SF-1 (CHS-134)



Dimensions in () are in mm
 Unless Otherwise Noted: .XXX = ± 0.010
 .XX = ± 0.02
 WEIGHT (APPROX): 0.07 OUNCES 2 GRAMS

Pin Configuration

| Pin No. | Function | Pin No. | Function |
|---------|----------|---------|----------|
| 1 | C | 3 | A |
| 2 | B | 4 | D |

Pin Configuration

| Pin No. | Function | Pin No. | Function |
|---------|----------|---------|----------|
| 1 | C | 5 | A |
| 2 | GND | 6 | GND |
| 3 | GND | 7 | GND |
| 4 | B | 8 | D |

Ordering Information

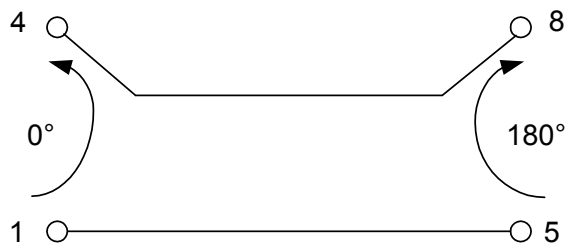
| Part Number | Package |
|-------------|----------------------|
| CH-134-PIN | FP-2 (flat pack) |
| CHS-134-PIN | SF-1 (surface mount) |

Electrical Specifications¹: T_A = -55°C to +85°C

| Parameter | Test Conditions | Units | Min. | Typ. | Max. |
|-----------------------------|---|-------|------|------|----------------|
| Coupling | Input to Output | dB | 10.1 | 10.8 | 11.5 |
| Coupling Flatness | — | dB | — | — | ±0.5 |
| VSWR | All Ports 10 - 500 MHz 25 - 200 MHz | Ratio | — | — | 1.8:1 1.5:1 |
| Directivity | Both Directions | dB | 20 | — | — |
| Main Line Loss ² | — | dB | — | — | 1.6 |
| Input Power | — | W | — | — | 1.0 |

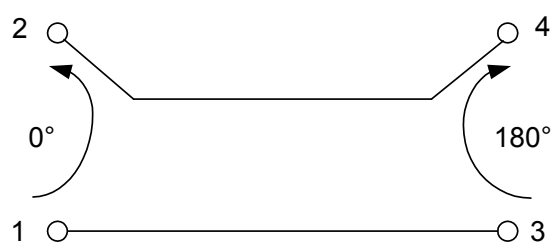
1. All specifications apply with 50 ohm source and load impedance.
 2. Includes theoretical power split.
- This product contains elements protected by United States Patent number 3,426,298.

Functional Diagram (CH-134)



Case P2, P3, P6 and P7 Ground

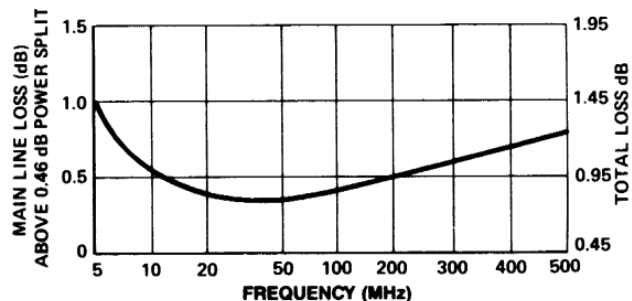
Functional Diagram (CHS-134)



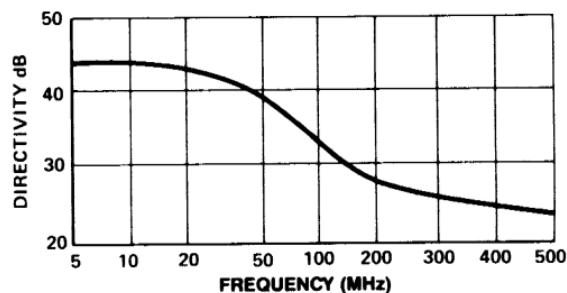
Case Ground

Typical Performance Curves

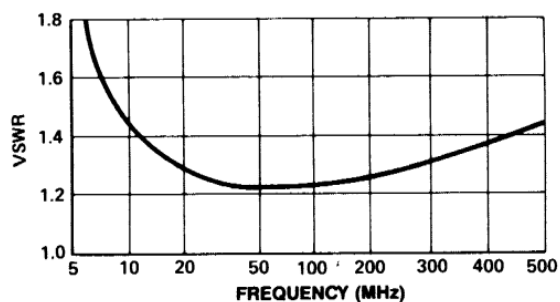
Main Line Loss



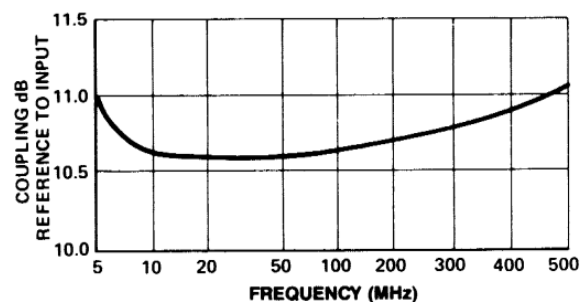
Directivity



VSWR



Coupling



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