CH- / CHS-134

Bi-Directional Couplers, 10 - 500 MHz



Rev. V3

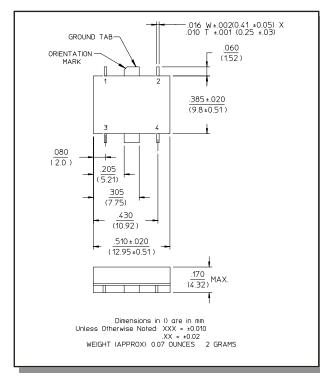
Features

- n Constant Coupling Within ± 0.5 dB Max.
- n MIL-STD-202 Screening Available

Description

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

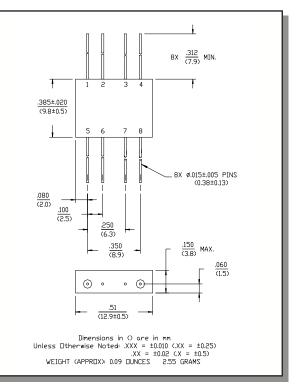
SF-1 (CHS-134)



Pin Configuration (CHS-134)

Pin No.	Function	Pin No.	Function
1	С	3	А
2	В	4	D

FP-2 (CH-134)



Pin Configuration (CH-134)

Pin No.	Function	Pin No. Functio	
1	С	5	А
2	GND	6	GND
3	GND	7	GND
4	В	8	D

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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 Visit www.macomtech.com for additional data sheets and product information.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

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Bi-Directional Couplers, 10 - 500 MHz

Electrical Specifications¹: $T_A = -55^{\circ}C$ to $+85^{\circ}C$

Parameter	Test Conditions	Frequency	Units	Min	Тур	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 Ratio	_		1.8:1 1.5:1
Directivity	Both Directions		dB	20	_	—
Main Line Loss ²	_		dB	—	_	1.6
Input Power	_	_	Watt	—	_	1.0

1. All specifications apply with 50 ohm source and load impedance.

2. Includes theoretical power split.

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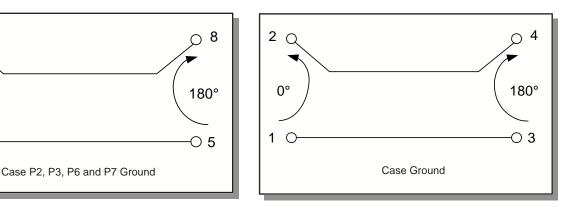
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This product contains elements protected by United States Patent umber 3,426,298.

Functional Diagram (CH-134)

Functional Diagram (CHS-134)



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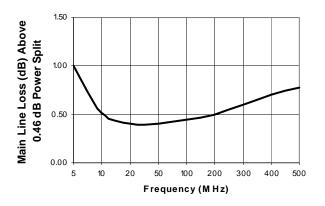
CH- / CHS-134



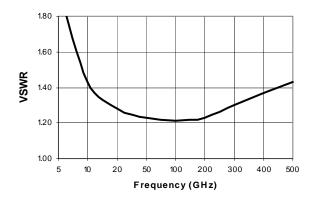
Rev. V3

Typical Performance Curves

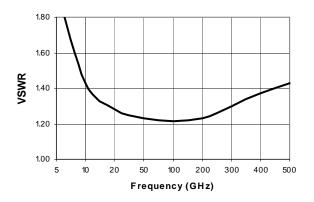
Main Line Loss



VSWR



Coupling



Ordering Information

Part Number	Package	
CH-134 PIN	FP-2	
CHS-134 PIN	SF-1	

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Directivity

