

Bi-Directional Couplers, 10 - 500 MHz

Rev. V3

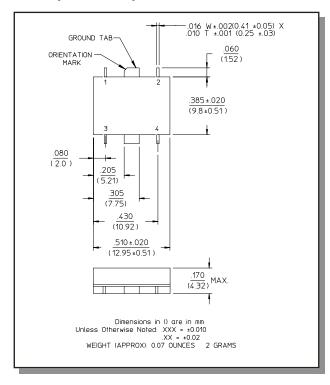
Features

- n Constant Coupling Within $\pm~0.5~dB~Max$.
- n MIL-STD-202 Screening Available

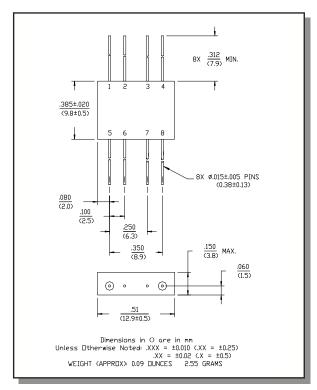
Description

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

SF-1 (CHS-134)



FP-2 (CH-134)



Pin Configuration (CH-134)

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

Pin Configuration (CHS-134)

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

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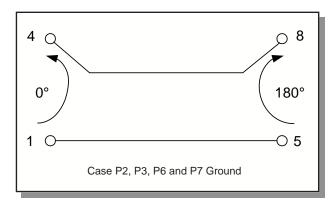
Electrical Specifications¹: $T_A = -55$ °C to +85°C

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

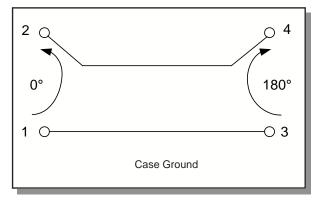
^{1.} All specifications apply with 50 ohm source and load impedance.

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

Functional Diagram (CH-134)



Functional Diagram (CHS-134)



^{2.} Includes theoretical power split.

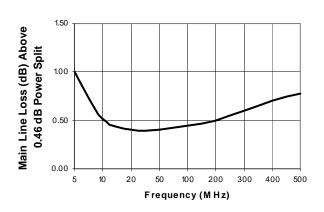


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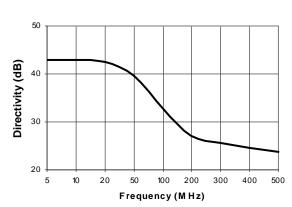
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Typical Performance Curves

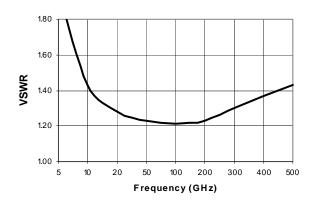
Main Line Loss



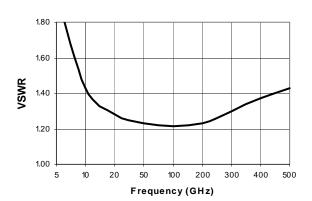
Directivity



VSWR



Coupling



Ordering Information

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

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is

[•] North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

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

[•] China Tel: +86.21.2407.1588