

## 20 dB, Bi-Directional Coupler, 1 - 1000 MHz

Rev. V3

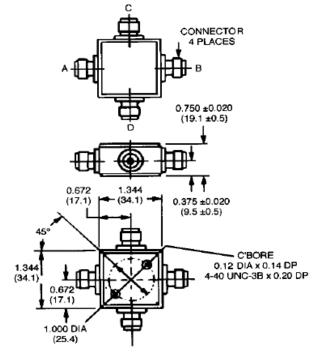
#### **Features**

- **Broad Frequency Range**
- Constant Coupling—Within ± 0.5 dB Max
- VSWR: 1.3:1 Max

### **Description**

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

### **C-8**



Dimensions in ( ) are in mm. Unless Otherwise Noted:  $xxx = \pm 0.015$  ( $x = \pm 0.4$ ) WEIGHT (APPROX.): 2.5 OUNCES 71 GRAMS

# Electrical Specifications<sup>1</sup>: $T_A = -55$ °C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Coupling	Input to Output	1-1000 MHz	dB	19.0	20.0	21.0
Coupling Flatness	_	10 - 500 MHz 1 - 1000 MHz	dB dB	_	_	± 0.25 ± 0.5
VSWR	All Ports	10 - 500 MHz 1 - 1000 MHz	Ratio Ratio	_	_	1.2:1 1.3:1
Directivity	Both Directions	10 - 500 MHz 1 - 1000 MHz	dB dB	25 20	_	_
Main Line Loss <sup>2</sup>	_	10 - 500 MHz 1 - 1000 MHz	dB dB	_	_	0.5 0.7

- 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 umber 3,426,298.

typical. Mechanical outline has been fixed. Engineering samples in Commitment to produce in volume is not guaranteed.

<sup>•</sup> North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

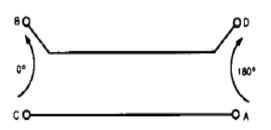
<sup>•</sup> China Tel: +86.21.2407.1588 • India Tel: +91.80.4155721 Visit www.macomtech.com for additional data sheets and product information.



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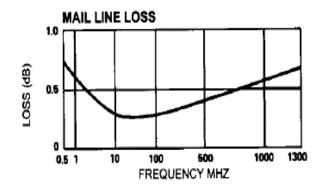
## **Functional Diagram**

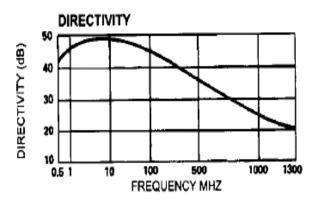


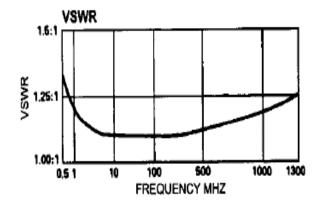
## **Ordering Information**

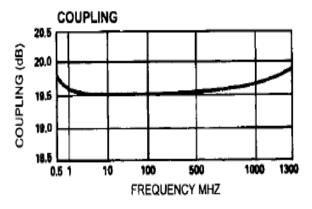
Part Number	Package		
CH-132 BNC	Connectorized		
CH-132 N	Connectorized		
CH-132 SMA	Connectorized		
CH-132 TNC	Connectorized		

## **Typical Performance Curves**









Solutions has under development. Performance is based on engineering tests. Specifications are

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<sup>2</sup>