

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

Rev. V3

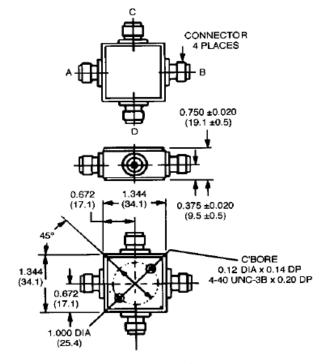
### **Features**

- **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 and/or test data may be available. Commitment to produce in volume is not guaranteed.

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

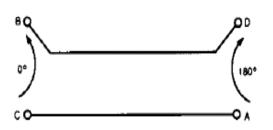
<sup>•</sup> India Tel: +91.80.4155721 • China Tel: +86.21.2407.1588 Visit www.macomtech.com for additional data sheets and product information.



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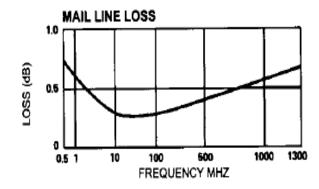
## **Functional Diagram**

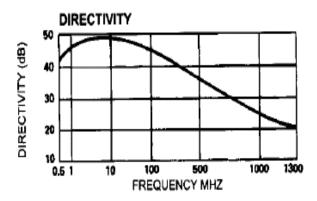


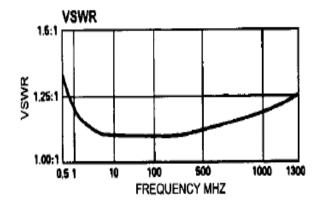
## **Ordering Information**

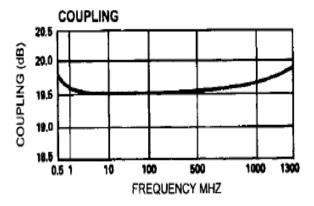
Part Number	Package		
CH-132 BNC	Connectorized		
CH-132 N	Connectorized		
CH-132 SMA	Connectorized		
CH-132 TNC	Connectorized		

## **Typical Performance Curves**









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<sup>2</sup>