

# 20 dB, Bi Directional Coupler 1-1000MHz

Rev. V3

#### **Features**

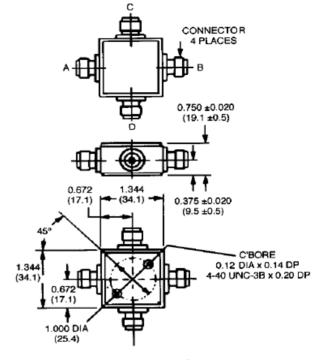
- Broad Frequency Range
- Constant Coupling—Within ± 0.5 dB Max
- VSWR: 1.3:1 Max

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### **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<sub>A</sub> = -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

<sup>1.</sup> All specifications apply with 50 ohm source and load impedance.

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

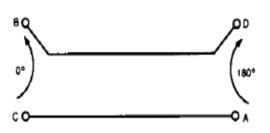
<sup>2.</sup> Includes theoretical power split.



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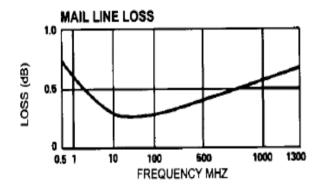
### **Functional Diagram**

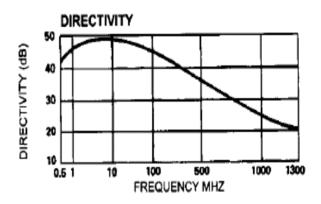


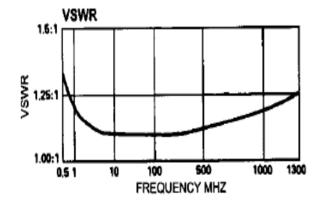
### **Ordering Information**

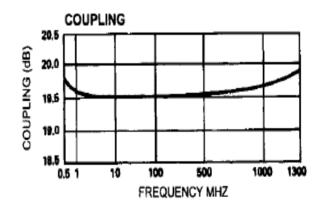
Part Number	Package		
CH-132 BNC	Connectorized		
CH-132 N	Connectorized		
CH-132 SMA	Connectorized		
CH-132 TNC	Connectorized		

## **Typical Performance Curves**









CH-132



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