

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

Rev. V3

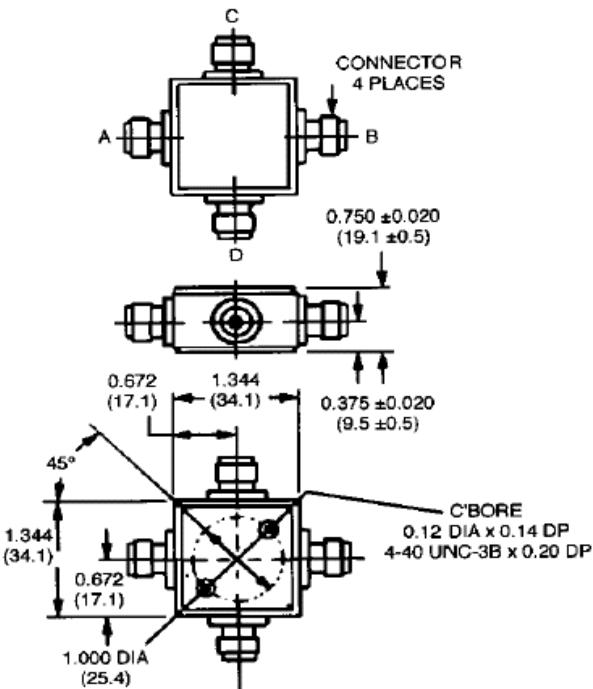
Features

- 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 = ± 0.015 (x = ± 0.4)
WEIGHT (APPROX.): 2.5 OUNCES 71 GRAMS

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

Parameter	Test Conditions	Frequency	Units	Min	Typ	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 ²	—	10 - 500 MHz 1 - 1000 MHz	dB dB	— —	— —	0.5 0.7

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

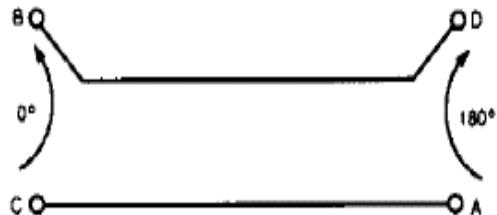
2. Includes theoretical power split.

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

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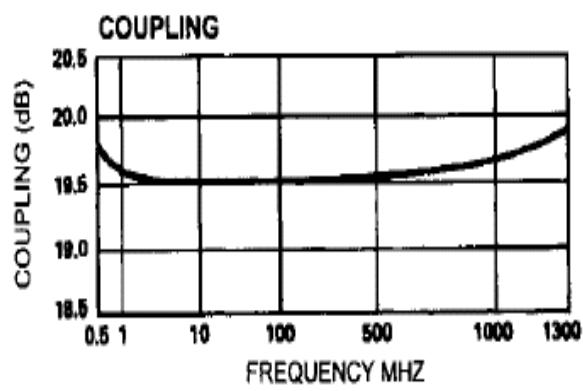
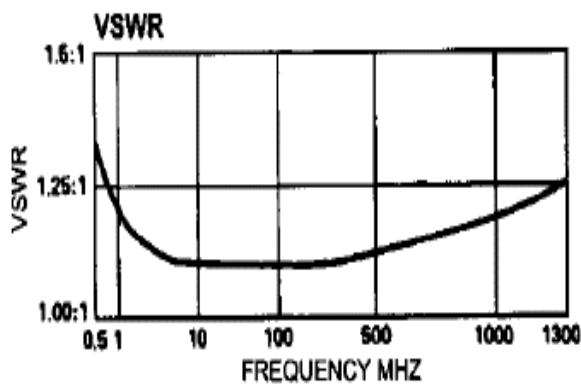
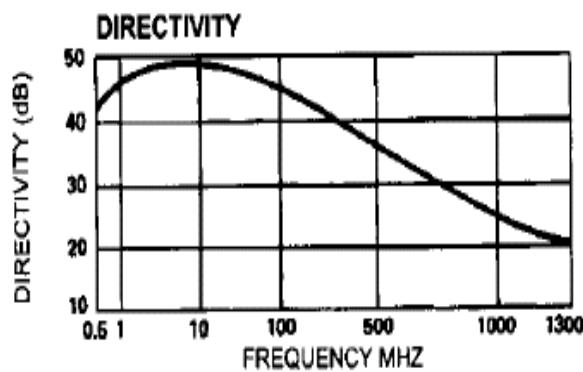
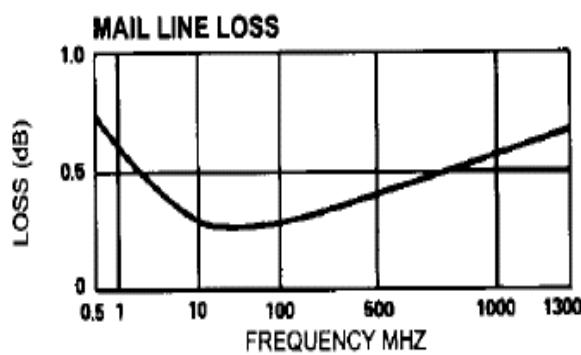
Functional Diagram



Ordering Information

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

Typical Performance Curves



Mouser Electronics

Authorized Distributor

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