CH-132

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

Rev. V3

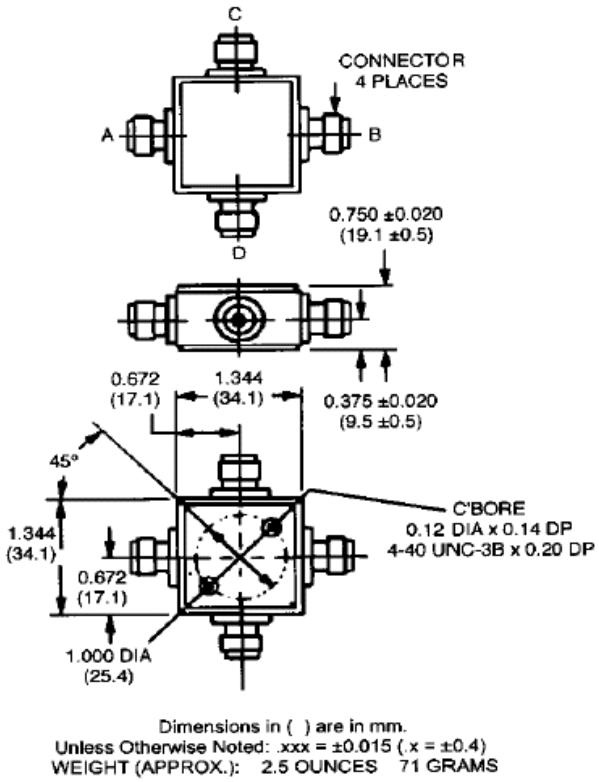
Features

- 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 Specifications[1]: T_A = -55°C to +85°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 umber 3,426,298.

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

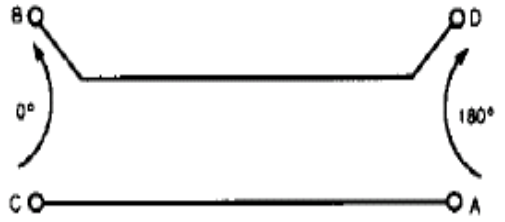
• **North America** Tel: 800.366.2266 • **Europe** Tel: +353.21.244.6400
• **India** Tel: +91.80.4155721 • **China** Tel: +86.21.2407.1588
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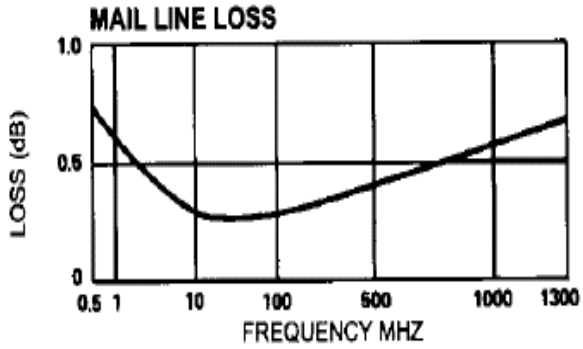
Functional Diagram

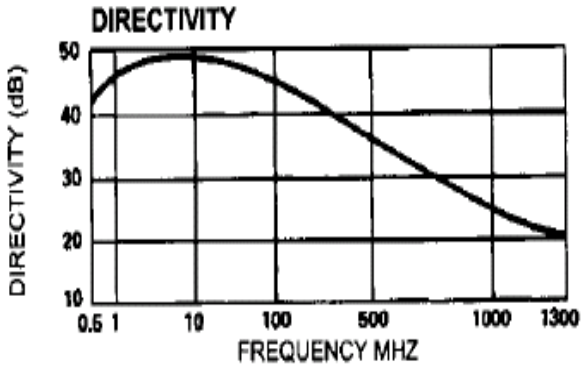


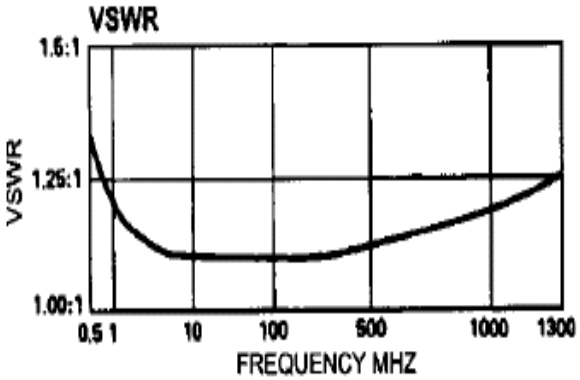
Ordering Information

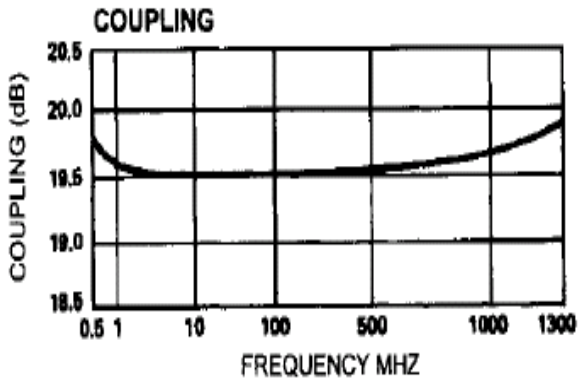
Part Number	Package
CH-132 BNC	Connectorized
CH-132 N	Connectorized
CH-132 SMA	Connectorized
CH-132 TNC	Connectorized

Typical Performance Curves









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