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.

Electrical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Test Conditions</th>
<th>Frequency</th>
<th>Units</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coupling</td>
<td>Input to Output</td>
<td>1-1000 MHz</td>
<td>dB</td>
<td>19.0</td>
<td>20.0</td>
<td>21.0</td>
</tr>
</tbody>
</table>
| Coupling Flatness  | —              | 10 - 500 MHz    | dB    | —   | —   | ± 0.25
|                    |                | 1-1000 MHz      | dB    | —   | —   | ± 0.5 |
| VSWR               | All Ports      | 10 - 500 MHz    | Ratio | —   | —   | 1.2:1
|                    |                | 1-1000 MHz      | Ratio | —   | —   | 1.3:1 |
| Directivity        | Both Directions| 10 - 500 MHz    | dB    | 25  | —   | —   |
|                    |                | 1-1000 MHz      | dB    | 20  | —   | —   |
| Main Line Loss 2   | —              | 10 - 500 MHz    | dB    | —   | —   | 0.5 |
|                    |                | 1-1000 MHz      | dB    | —   | —   | 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.
CH-132

20 dB, Bi Directional Coupler
1-1000MHz

Functional Diagram

Typical Performance Curves

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH-132 BNC</td>
<td>Connectorized</td>
</tr>
<tr>
<td>CH-132 N</td>
<td>Connectorized</td>
</tr>
<tr>
<td>CH-132 SMA</td>
<td>Connectorized</td>
</tr>
<tr>
<td>CH-132 TNC</td>
<td>Connectorized</td>
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