

## PRODUCT DATA SHEET

C5324

**4-Port Dual Directional Coupler** employs two, 3-Port Uni-Directional Couplers, internally connected, in tandem, providing measurement of both forward and reverse power. Ideal for simultaneously monitoring a system's forward and reverse power and for reflectometer measurements. Unlike the Bi-Directional Coupler, the directivity of the Dual Directional Coupler is unaffected by the loads on the coupled ports.

### Electrical Specifications:

Frequency: 100 - 500 MHz  
Power: 1500 W CW  
Coupling:  $50 \pm 1.0$  dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness:  $\pm 0.3$  dB Max.  
VSWR (ML): 1.15:1 Max.  
Directivity: 20 dB Min.

### Mechanical Specifications:

Type: Connectorized  
Material: Aluminum 6061-T6  
Surface Finish: Chem. Film Per MIL-DTL-5541F  
Type I Class 3 (Yellow Iridite)  
RoHS Compliant Available  
Operating Temperature: -55°C to +75°C  
Storage Temperature: -60°C to +85°C  
Humidity: 95% Non-Condensing  
Size: 3.0 x 3.0 x 1.09"

### Connector Configurations:

| Model      | Input (J1)  | Output (J2) | Fwd (J3) | Rev (J4) |
|------------|-------------|-------------|----------|----------|
| C5324-10   | N Female    | N Female    | N Female | N Female |
| C5324-12   | N Female    | N Female    | SMA      | SMA      |
| C5324-13   | N Female    | N Female    | BNC      | BNC      |
| C5324-20*  | 7/16 Female | 7/16 Female | N Female | N Female |
| C5324-22*  | 7/16 Female | 7/16 Female | SMA      | SMA      |
| C5324-23*  | 7/16 Female | 7/16 Female | BNC      | BNC      |
| C5324-41   | SC Female   | SC Female   | N Female | N Female |
| C5324-43   | SC Female   | SC Female   | SMA      | SMA      |
| C5324-627* | 7/16 Female | 7/16 Male   | N Female | N Female |
| C5324-714  | SC Male     | SC Female   | N Female | N Female |

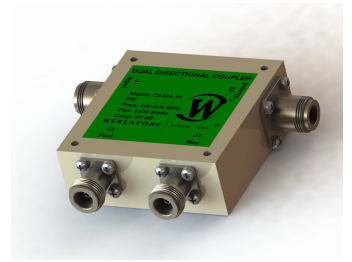
(7/16-F Main Line connector option increases size to 3.0 x 3.0 x 1.59")



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Model C5324

Connectorized Directional Couplers

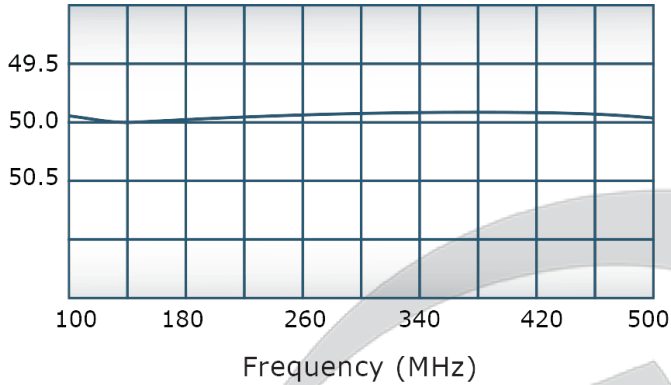


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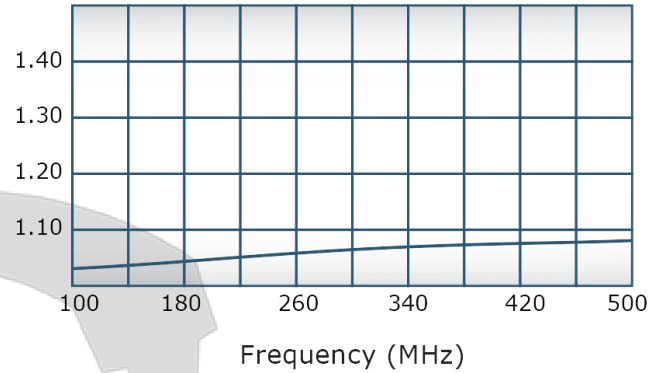
C5324

### Performance Data (Specifications subject to change without notice):

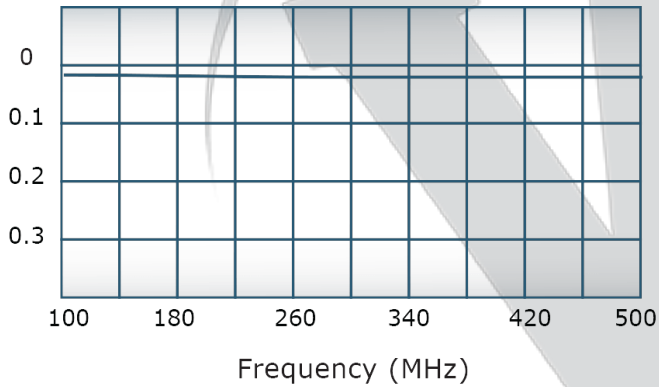
Coupling:



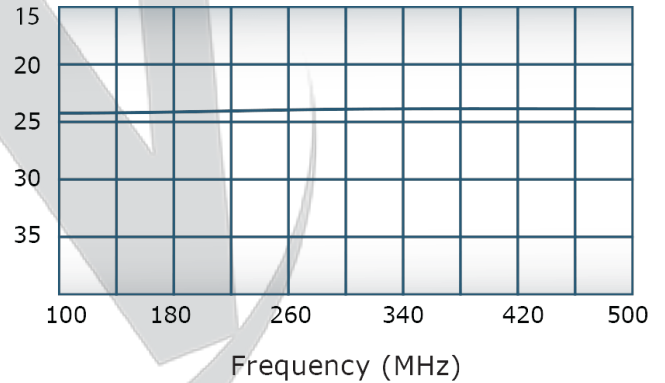
VSWR:



Insertion Loss:



Directivity:



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