
**PRODUCT DATA SHEET**
**C10299**

**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.

**Features:**

High Power      Wide Bandwidths      Small Size      Flat Coupling      Custom Designs Available

**Electrical Specifications:**

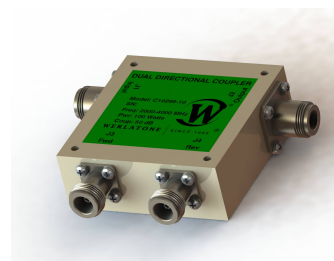
Frequency: 2000 - 4000 MHz  
Power: 100 W CW  
Coupling:  $50 \pm 1.0$  dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness:  $\pm 0.75$  dB Max.  
VSWR (ML): 1.30:1 Max.  
Directivity: 15 dB Min.

**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)
C10299-10	N Female	N Female	N Female	N Female
C10299-12	N Female	N Female	SMA	SMA
C10299-13	N Female	N Female	BNC	BNC
C10299-16	N Male	N Male	SMA	SMA
C10299-102	SMA	SMA	SMA	SMA
C10299-302	TNC Female	TNC Female	SMA	SMA
C10299-712	N Male	N Female	SMA	SMA
C10299-714	N Male	N Female	N Female	N Female

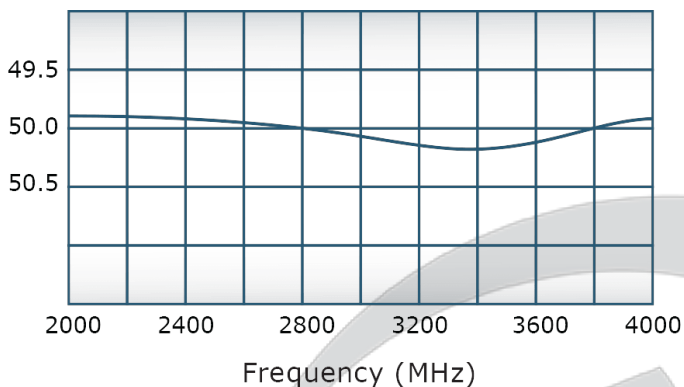


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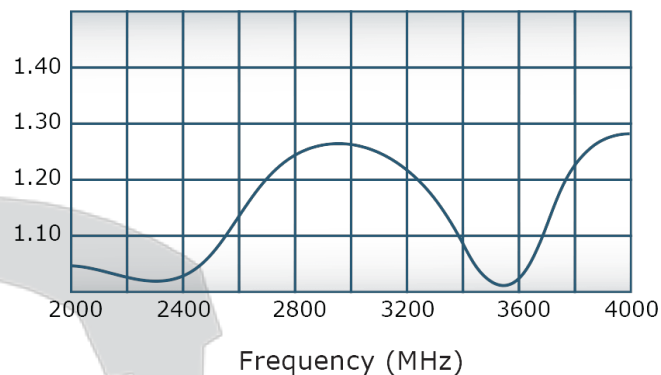
C10299

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

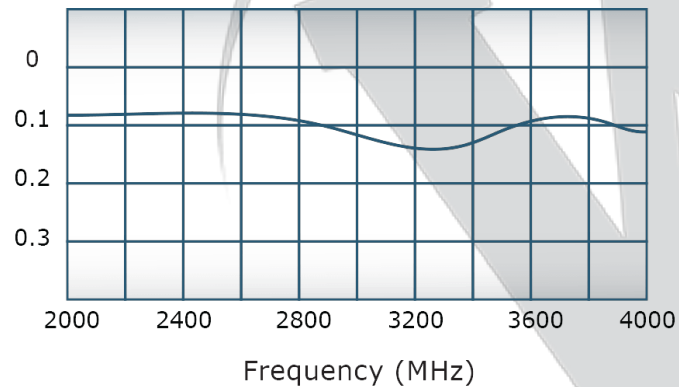
Coupling:



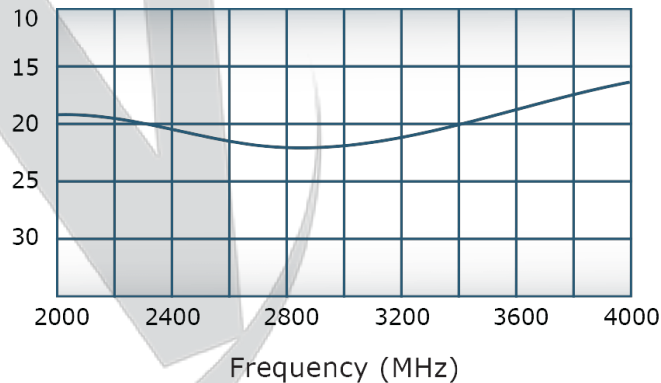
VSWR:



Insertion Loss:



Directivity:



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