

## 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:

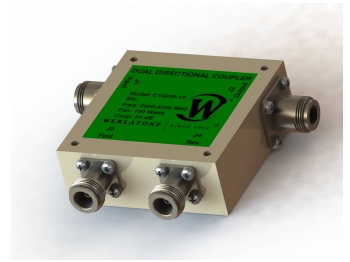
Frequency: 2000 - 4000 MHz  
Power: 100 W CW  
Coupling: 50 ± 1.0 dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness: ± 0.75 dB Max.  
VSWR (ML): 1.30:1 Max.  
Directivity: 15 dB Min.

### 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"

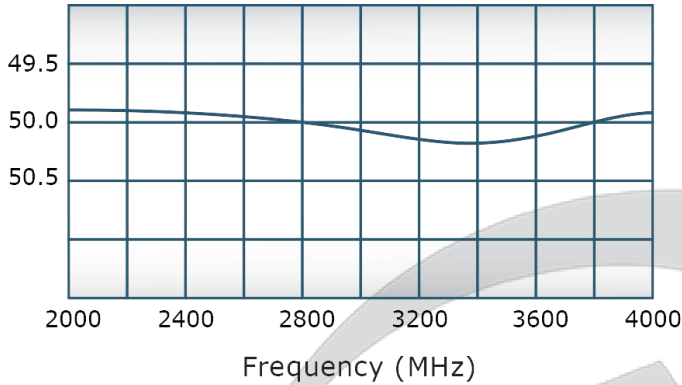
### Connector Configurations:

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

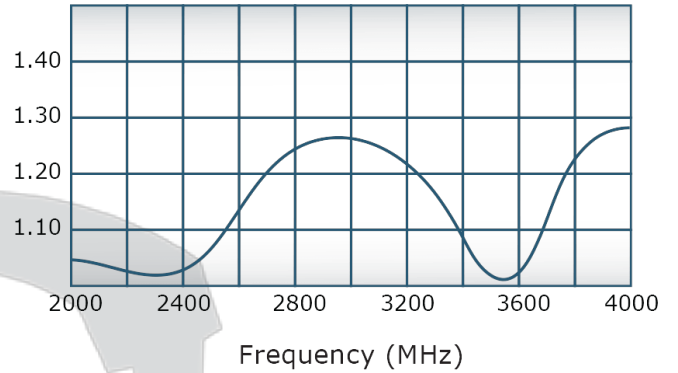


## Performance Data (Specifications subject to change without notice):

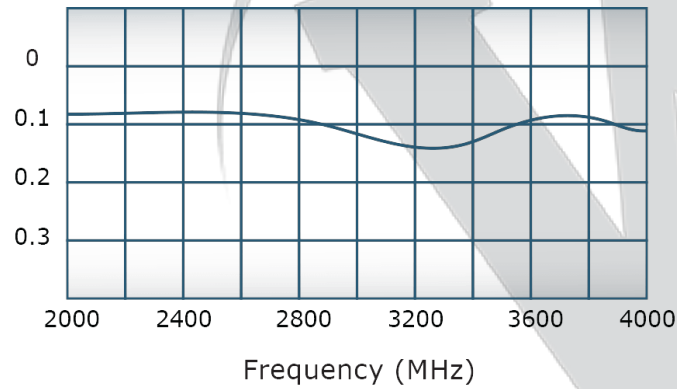
Coupling:



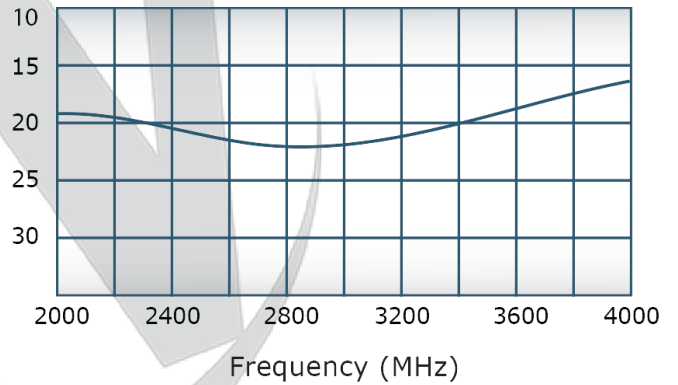
VSWR:



Insertion Loss:



Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL\_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

UNLESS OTHERWISE SPECIFIED		OWN	DATE	<b>WERLATONE SINCE 1965</b> 17 Jon Barrett Rd Patterson, NY 12563
• INTERPRET DRAWING JAW MIL-STD-130 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHESES INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES: ± 2° 3 PL. ± .005 (1.3) 2 PL. ± .015 (1.3) • REMOVE ALL BURRS AND SHARP EDGES R.01 MAX • CONCENTRICITY MACHINED DIA: .002 FIM • MACHINE TOOL IMPACT: .003 MAX		CHK	DATE	
NEXT ASSY		ENGR	DATE	TITLE
USED ON		MJ	7/5/2001	<b>OUTLINE</b>
APPLICATION		MFR	DATE	SIZE
THIRD ANGLE PROJECTION		QA	DATE	CAGE CODE
		RLSE	DATE	DWG NO
		SCALE		REV
		1:1		A
		SHEET 1 OF 1		

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