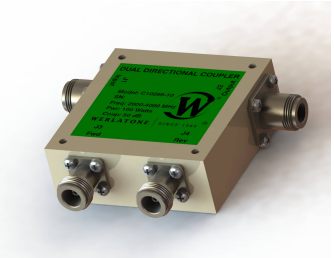
WERLATONE

Model C10299
Connectorized Directional Couplers



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:

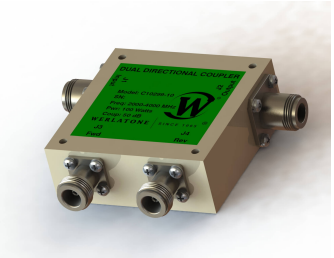
Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Humidity:	95% Non-Condensing
Size:	3.0 x 3.0 x 1.09''

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

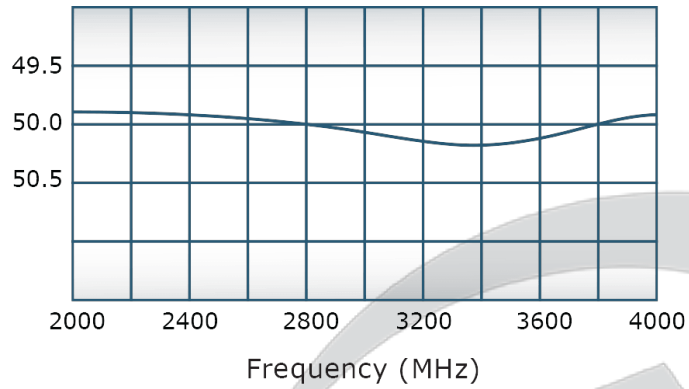
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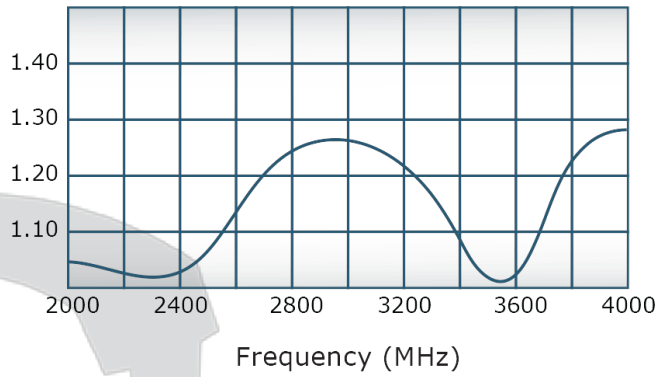


Performance Data (Specifications subject to change without notice):

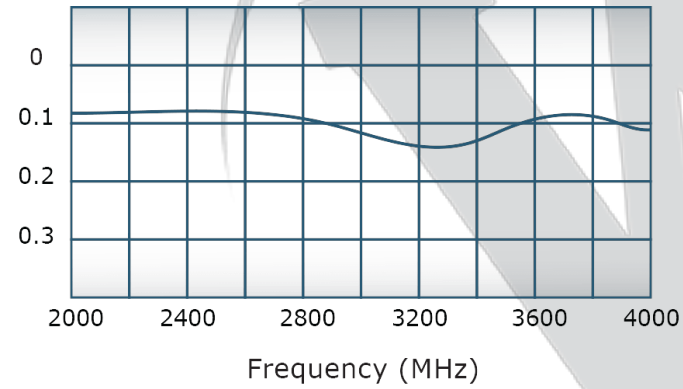
Coupling:



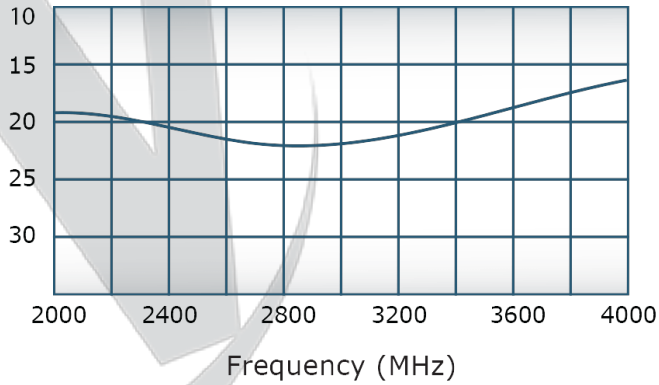
VSWR:



Insertion Loss:



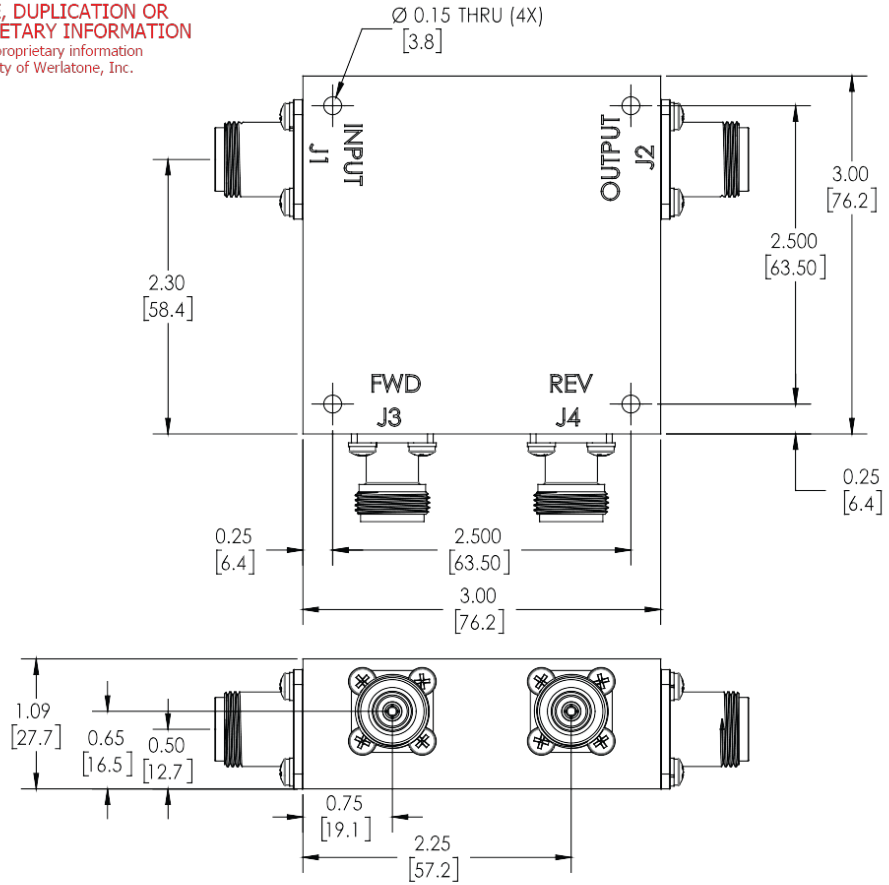
Directivity:



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

NOTES: UNLESS OTHERWISE SPECIFIED
1. **MATERIAL: ALUMINUM 6061-T6**
2. **FINISH: CHEM FILM PER MIL-DTL_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

		UNLESS OTHERWISE SPECIFIED	DWN	DATE
		• INTERPRET DRAWING IAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHETICAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° 3 PL ± .005 [.13] 2 PL ± .015 [.38] • REMOVE ALL BURRS AND SHARP EDGES R.01 MAX • CONCENTRICITY MACHINED DIA: .002 FIM • MACHINE TOOL MISMATCH .003 MAX	RH	7/5/2001
			CHK	DATE
			ENGR	DATE
			MJ	7/5/2001
			MFGR	DATE
			QA	DATE
NEXT ASSY	USED ON		RLSE	DATE
APPLICATION		THIRD ANGLE PROJECTION		

WERLATONE SINCE 1965 — 17 Jon Barrett Rd Patterson, NY 12563

TITLE: OUTLINE

SIZE	CAGE CODE	DWG NO	REV
B		10379-505	A

SCALE 1:1 — SHEET 1 OF 1

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