



PRODUCT DATA SHEET

C6493

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: 1 - 2000 MHz
Power: 50 W CW
Coupling: 30 ± 1.0 dB Max.
Flatness: ± 1.0 dB Max.
Insertion Loss: 1.25 dB Max.
VSWR (ML): 1.35:1 Max.
Directivity: 18 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: 2.7 x 1.5 x 1.1"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6493-10	N Female	N Female	N Female	N Female
C6493-12	N Female	N Female	SMA	SMA
C6493-13	N Female	N Female	BNC	BNC
C6493-102	SMA	SMA	SMA	SMA
C6493-610	N Female	N Male	N Female	N Female

Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.

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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



WERLATONE

Model C6493

Connectorized Directional Couplers

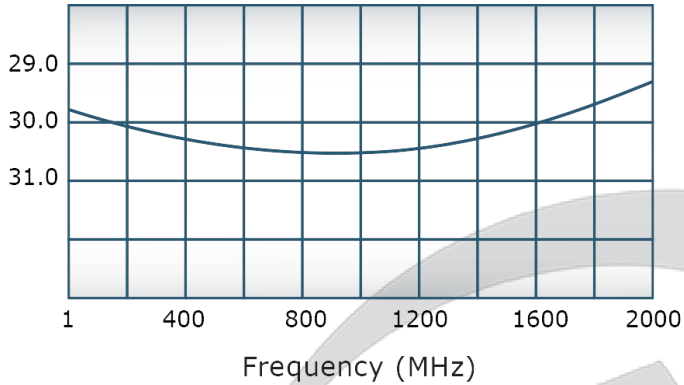


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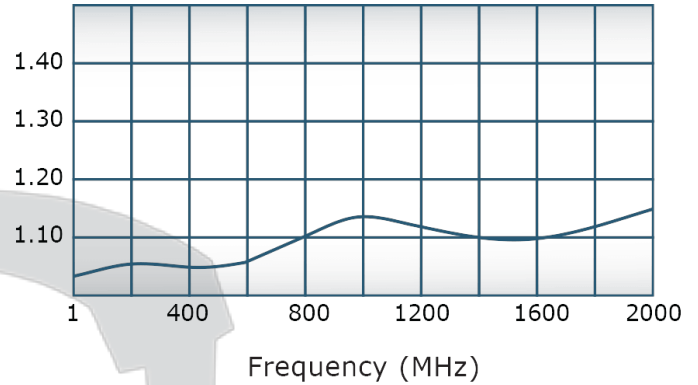
C6493

Performance Data (Specifications subject to change without notice):

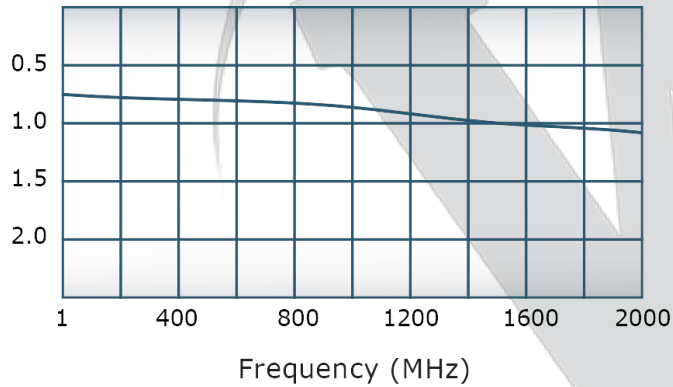
Coupling:



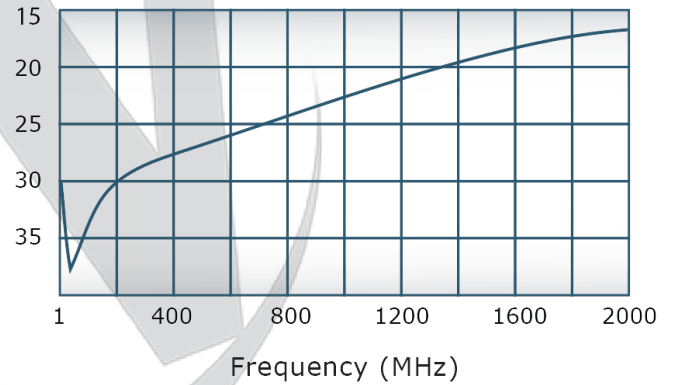
VSWR:



Insertion Loss:



Directivity:



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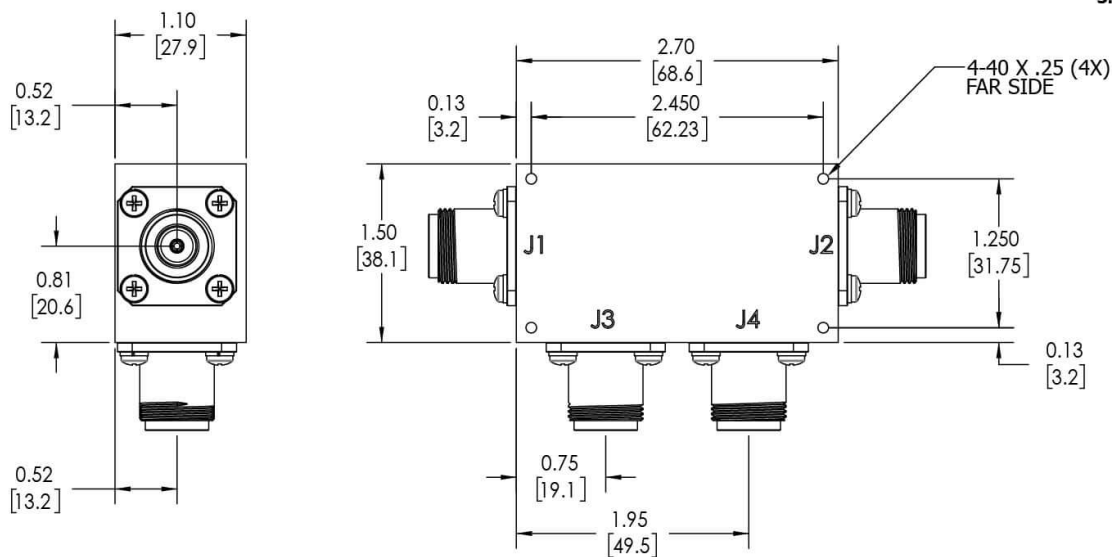
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/14/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:**
J1-J4: N FEMALE
J1-INPUT; J2-OUTPUT
J3-FWD; J4-REV



		UNLESS OTHERWISE SPECIFIED		OWN	DATE			17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	5/14/2019		WERLATONE SINCE 1965		
		DIMENSIONS FOR ASSEMBLY SHALL BE IN INCHES		CHK	DATE				
		PARENTHESES ARE USED FOR REFERENCE ONLY		CS	5/14/2019	TITLE	OUTLINE		
		DIMENSIONS ARE IN INCHES		ENGR	DATE				
		DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INFR	DATE	SIZE	CAGE CODE	DWG NO	REV
		TOLERANCES:		QA	DATE				
		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		RLSE	DATE	10685-500		A	
NEXT ASSY USED ON		THIRD ANGLE PROJECTION				SCALE	1:1		SHEET 1 OF 1
APPLICATION									

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