WERLATONE

Model C6493
Connectorized Directional Couplers



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 simultaneouly 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
Suface 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

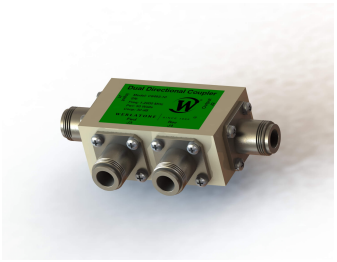
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a 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

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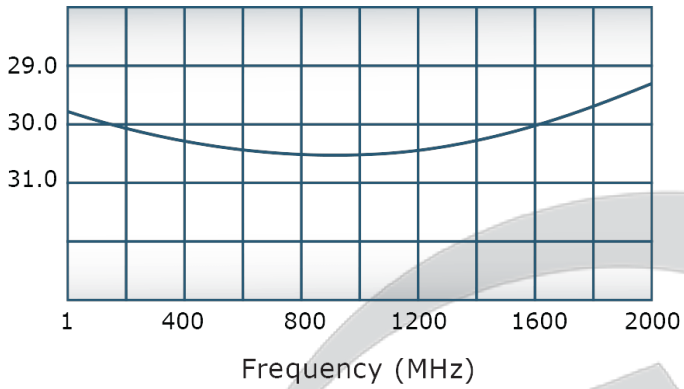
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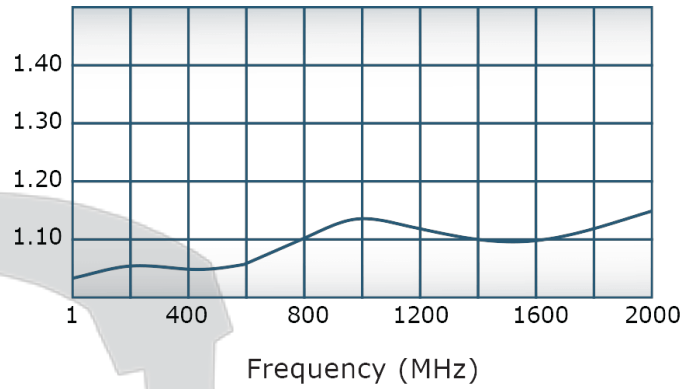
PRODUCT DATA SHEET **C6493**

Performance Data (Specifications subject to change without notice):

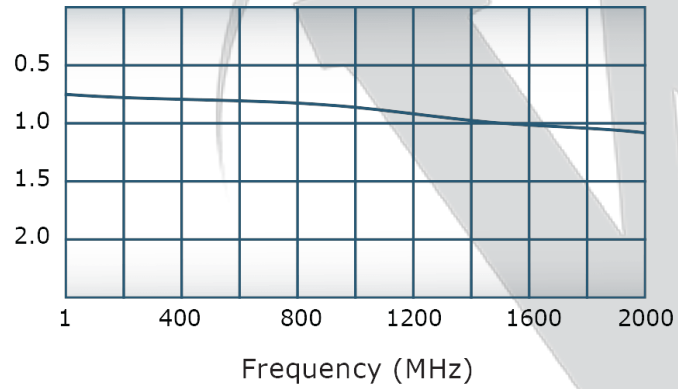
Coupling:



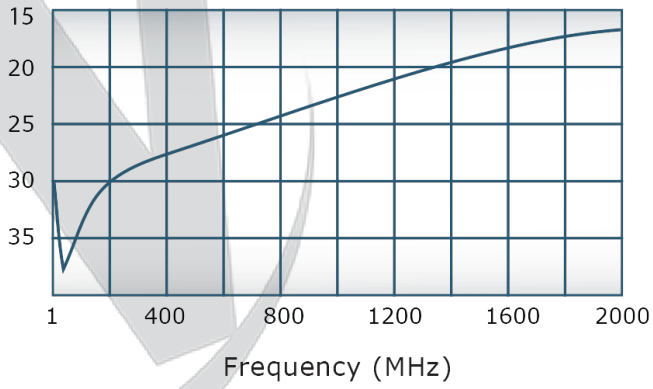
VSWR:



Insertion Loss:



Directivity:



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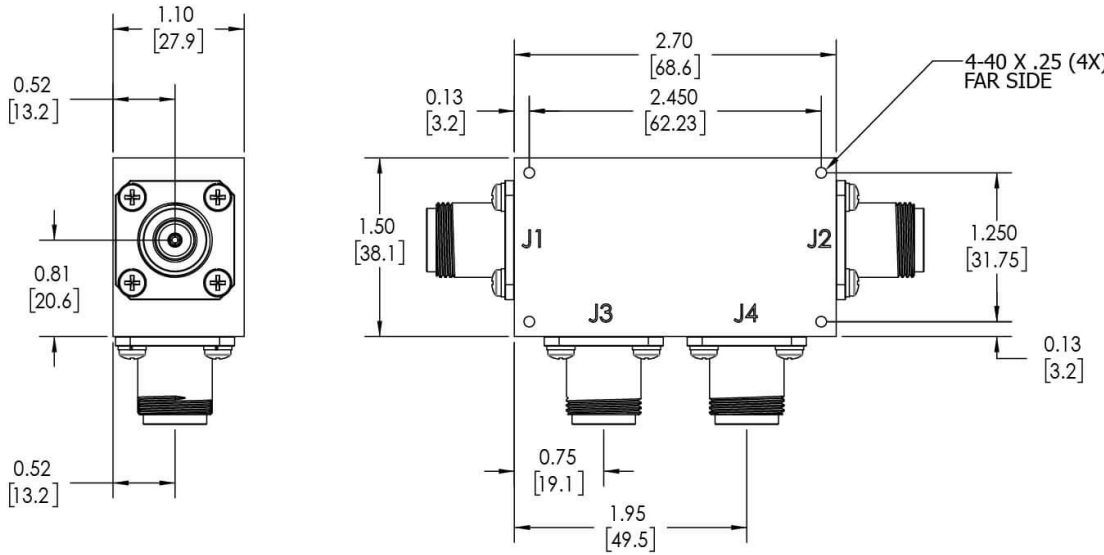
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/14/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

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



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE| SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
· INTERPRET DRAWING IAW MIL-STD-100		SD	5/14/2019		
· DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	TITLE	
· PARENTHETICAL INFO FOR REF ONLY		CS	5/14/2019	OUTLINE	
· DIMENSIONS ARE IN INCHES		ENGR	DATE		
· DIMENSIONAL LIMITS APPLY BEFORE PROCESSES					
· TOLERANCES: ANGLES ± 2° 3 PL ± .005 [.13] 2 PL ± .015 [.38]		MFGR	DATE		
· REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		QA	DATE	SIZE / CAGE CODE / DWG NO / REV	
· CONCENTRICITY MACHINED DIA: .002 FIM				B / 10685-500 / A	
· MACHINE TOOL MISMATCH .003 MAX		RLSE	DATE		
NEXT ASSY / USED ON				SCALE 1:1	SHEET 1 OF 1
APPLICATION		THIRD ANGLE PROJECTION			

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