


PRODUCT DATA SHEET
C10695

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: 700 - 6500 MHz
Power: 500 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.75 dB Max.
VSWR (ML): 1.35:1 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: 2.0 x 2.15 x 1.36"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10695-20	7/16 Female	7/16 Female	N Female	N Female
C10695-22	7/16 Female	7/16 Female	SMA	SMA
C10695-727	7/16 Male	7/16 Female	N Female	N Female
C10695-728	7/16 Male	7/16 Female	SMA	SMA
C10695-7724	7/16 Male	7/16 Male	SMA	SMA

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.



WERLATONE

Model C10695

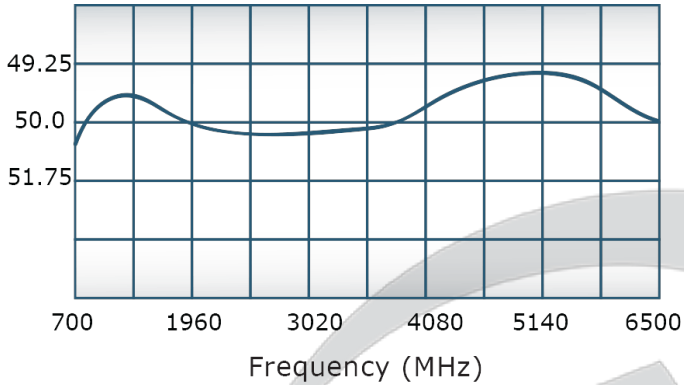


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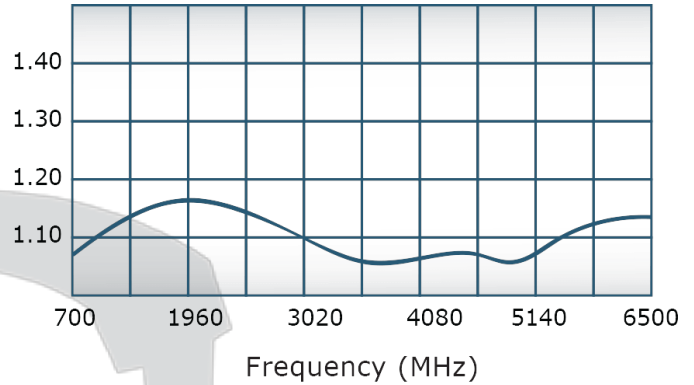
C10695

Performance Data (Specifications subject to change without notice):

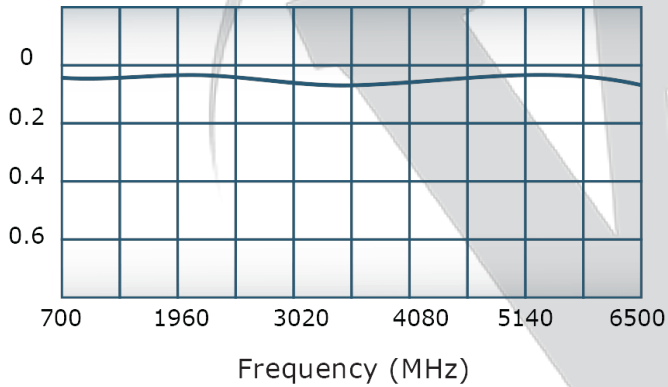
Coupling:



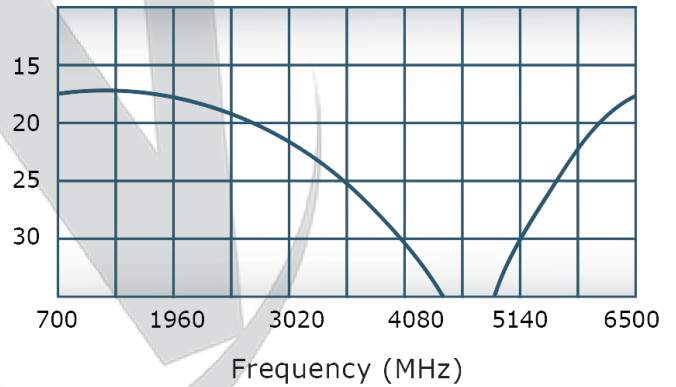
VSWR:



Insertion Loss:



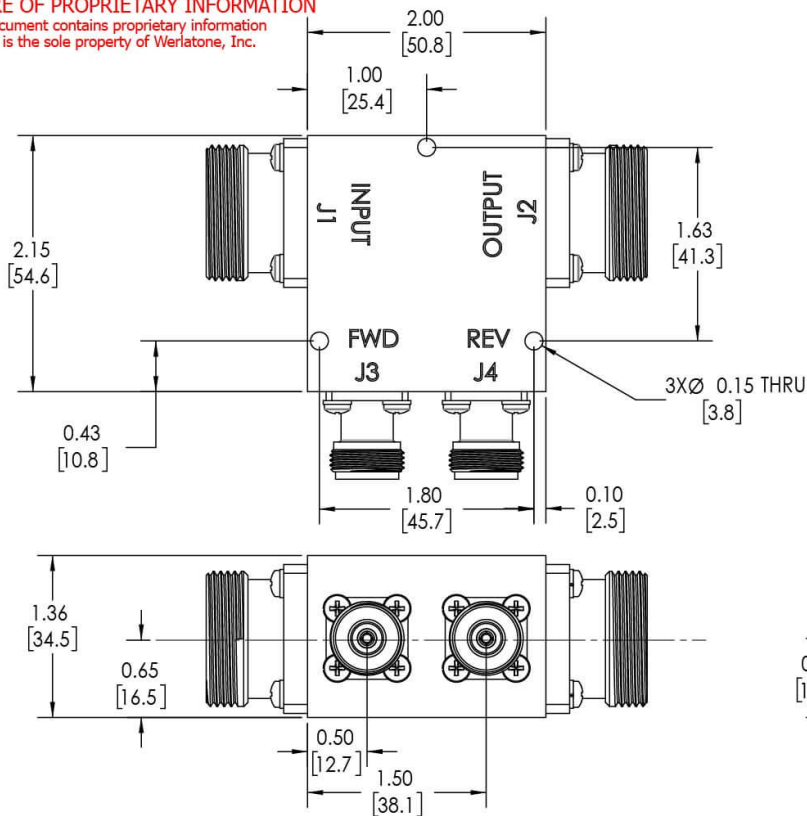
Directivity:



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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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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL-RELEASE	5/8/2015	BW
A	ECN 9696	3/25/19	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:**
J1,J2: 7/16 FEMALE
J3,J4: N FEMALE

UNLESS OTHERWISE SPECIFIED		DATE	3/25/2019
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		DATE	3/25/2019
DIMENSIONS FOR ASSEMBLY		DATE	3/25/2019
PARENTHESES FOR REF ONLY		DATE	3/25/2019
DIMENSIONS ARE IN INCHES		DATE	3/25/2019
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		DATE	3/25/2019
TOLERANCES:		DATE	3/25/2019
ANGLES ± 2°		DATE	3/25/2019
3 PL ± .005 [13]		DATE	3/25/2019
2 PL ± .015 [38]		DATE	3/25/2019
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		DATE	3/25/2019
CONCENTRICITY MACHINED DIA. .002 FIM		DATE	3/25/2019
MACHINE TOOL MISMATCH .003 MAX		DATE	3/25/2019
THIRD ANGLE PROJECTION		DATE	3/25/2019
NEXT ASSY USED ON		DATE	3/25/2019
APPLICATION		DATE	3/25/2019
TITLE		DATE	3/25/2019
SIZE		DATE	3/25/2019
CAGE CODE		DATE	3/25/2019
DWG NO		DATE	3/25/2019
REV		DATE	3/25/2019
SCALE		DATE	3/25/2019
1:1		DATE	3/25/2019
SHEET 1 OF 1		DATE	3/25/2019

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