
PRODUCT DATA SHEET
C5710

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: 20 - 500 MHz
 Power: 400 W CW
 Coupling: 40 ± 1.0 dB Max.
 Insertion Loss: 0.35 dB Max.
 Flatness: ± 0.5 dB Max.
 VSWR (ML): 1.30:1 Max.
 Directivity: 20 dB Min.

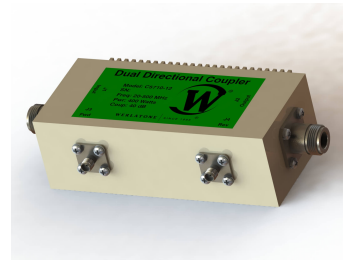
Mechanical Specifications:

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: 5.20 x 2.68 x 1.69"
 Weight: 1.75 lbs.

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5710-10	N Female	N Female	N Female	N Female
C5710-12	N Female	N Female	SMA	SMA
C5710-13	N Female	N Female	BNC	BNC
C5710-102	SMA	SMA	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.

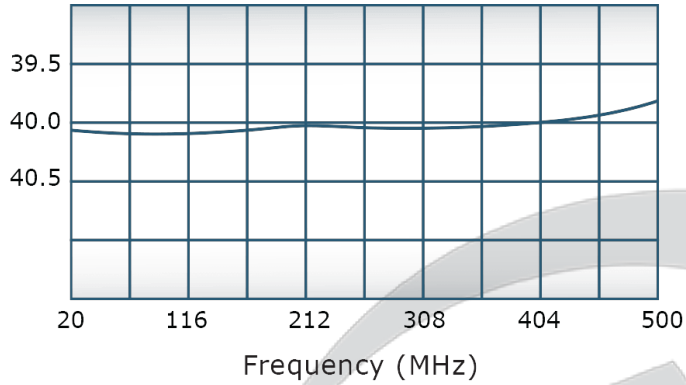


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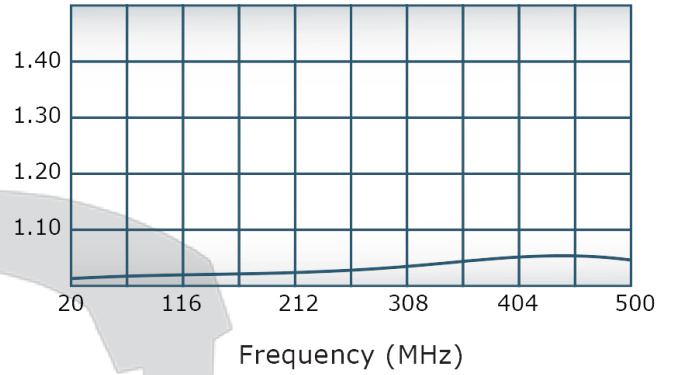
C5710

Performance Data (Specifications subject to change without notice):

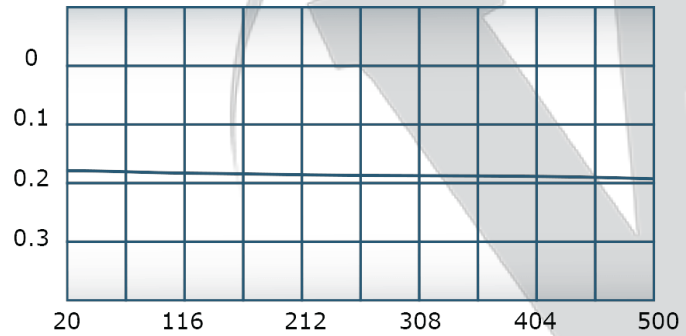
Coupling:



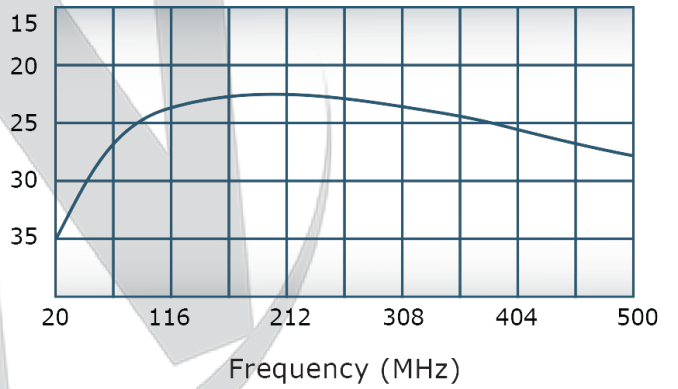
VSWR:



Insertion Loss:



Directivity:



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Werlatone, Inc.

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

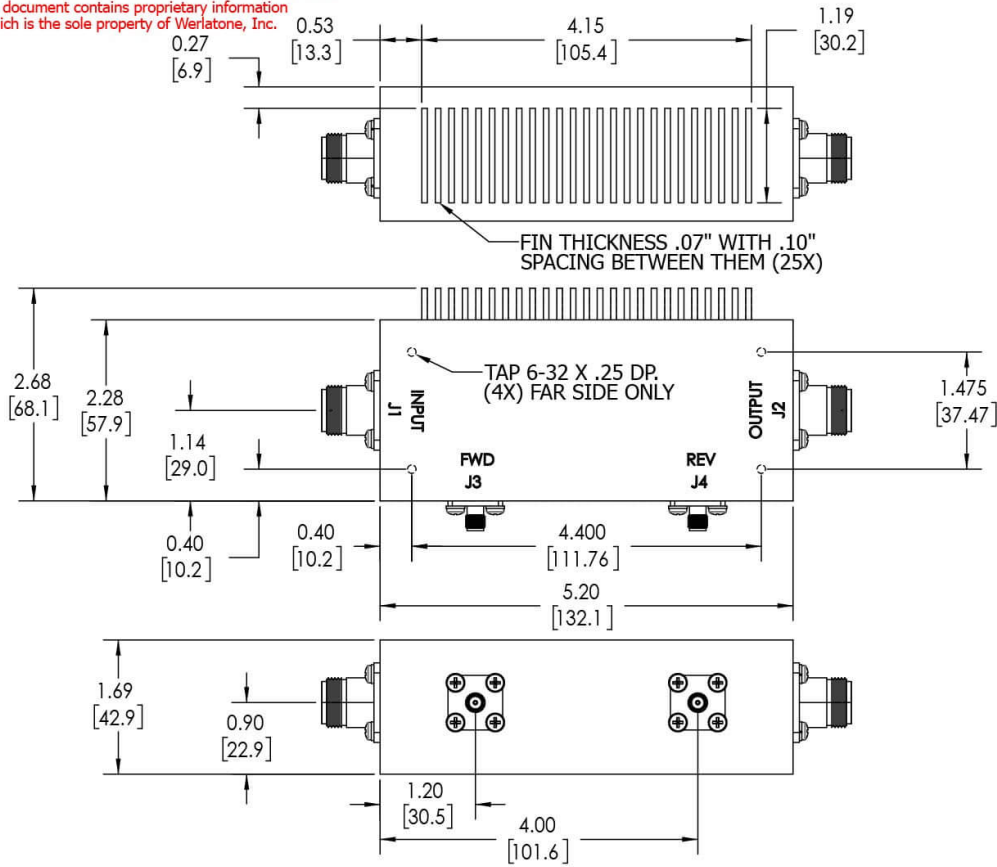
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED

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



UNLESS OTHERWISE SPECIFIED		DWN	DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	2/11/2019	DATE	
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE	DATE	
PARENTHERTICAL INFO FOR REF ONLY	ENGR	CS	2/11/2019	TITLE
DIMENSIONS ARE IN INCHES	DATE	DATE	DATE	OUTLINE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	ENGR	BW	5/28/2008	SIZE
TOLERANCES:	INFR	DATE	DATE	CAGE CODE
ANGLES ± 2°	QA	DATE	DATE	DWG NO
3 PL ± .005 [13]	RESE	DATE	DATE	REV
2 PL ± .015 [38]	DATE	DATE	DATE	A
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	DATE	DATE	DATE	
CONCENTRICITY MACHINED DIA: .002 FIM	DATE	DATE	DATE	
MACHINE TOOL MISMATCH .003 MAX	DATE	DATE	DATE	
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION	SCALE	1:1.5
APPLICATION				10407-502
				SHEET 1 OF 1

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