
**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.

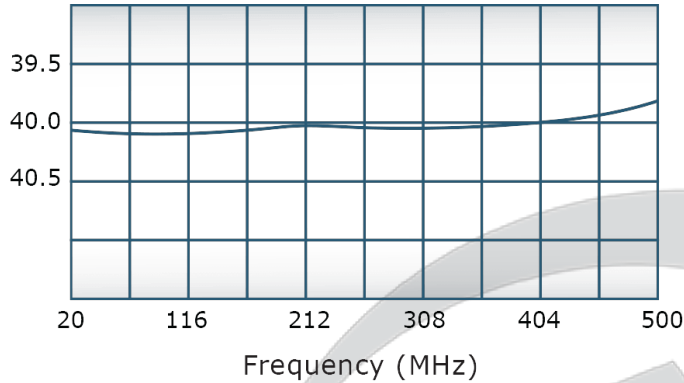


PRODUCT DATA SHEET

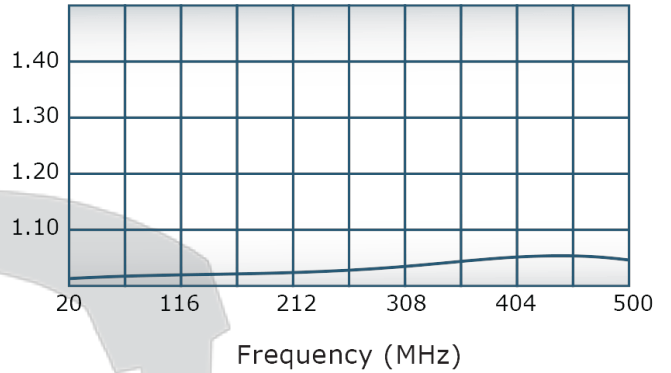
C5710

**Performance Data (Specifications subject to change without notice):**

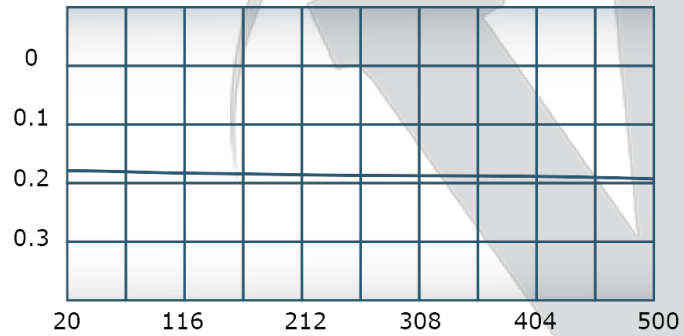
Coupling:



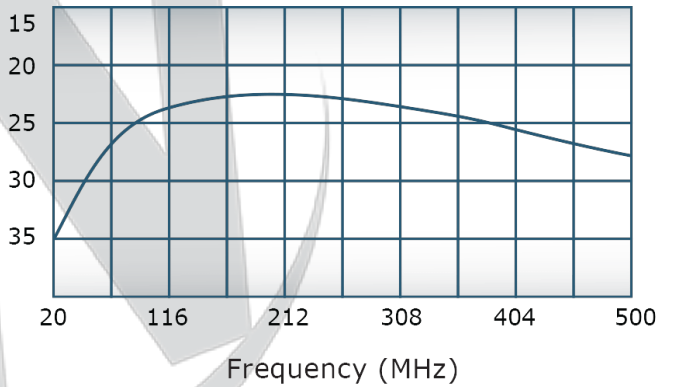
VSWR:



Insertion Loss:



Directivity:



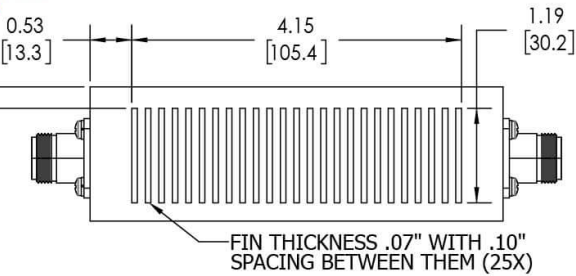
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of

Werlatone, Inc.

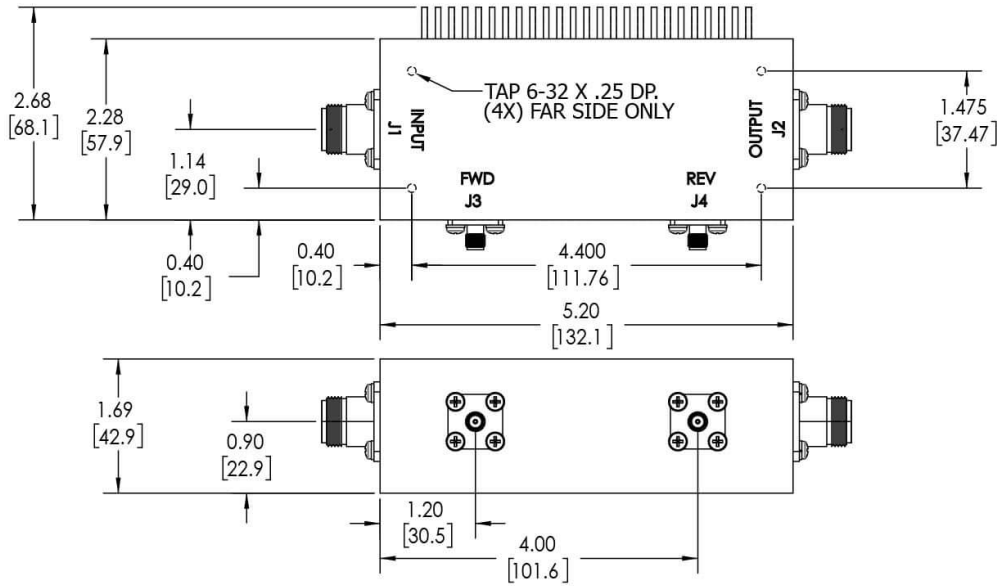
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

**RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION**

This document contains proprietary information which is the sole property of Werlatone, Inc.



FIN THICKNESS .07" WITH .10" SPACING BETWEEN THEM (25X)



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 IN ACCORDANCE WITH MIL-STD-100	SD	2/11/2019	DATE	
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE	DATE	
PARENTHESES INFO FOR REF ONLY	ENGR	CS	2/11/2019	TITLE
DIMENSIONS ARE IN INCHES	DATE	DATE	DATE	<b>OUTLINE</b>
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]	RELE	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

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of 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