
**PRODUCT DATA SHEET**
**C6411**

**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.

**Electrical Specifications:**

Frequency: 100 - 700 MHz  
Power: 3000 W CW  
Coupling:  $50 \pm 1.0$  dB Max.  
Insertion Loss: 0.15 dB Max.  
Flatness:  $\pm 0.5$  dB Max.  
VSWR (ML): 1.15:1 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: 3.0 x 3.0 x 1.09"

**Connector Configurations:**

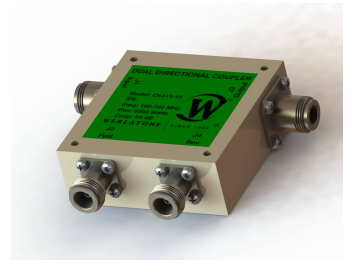
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6411-10	N Female	N Female	N Female	N Female
C6411-12	N Female	N Female	SMA	SMA
C6411-13	N Female	N Female	BNC	BNC
C6411-20*	7/16 Female	7/16 Female	N Female	N Female
C6411-22*	7/16 Female	7/16 Female	SMA	SMA
C6411-23*	7/16 Female	7/16 Female	BNC	BNC
C6411-41	SC FEmale	SC Female	N Female	N Female
C6411-610	N Female	N Male	N Female	N Female
C6411-627*	7/16 Female	7/16 Male	N Female	N Female
C6411-727*	7/16 Male	7/16 Female	N Female	N Female
C6411-728*	7/16 Male	7/16 Female	SMA	SMA

(7/16-F Main Line connector option increases size to 3.0 x 3.0 x 1.59")



# WERLATONE

Model C6411

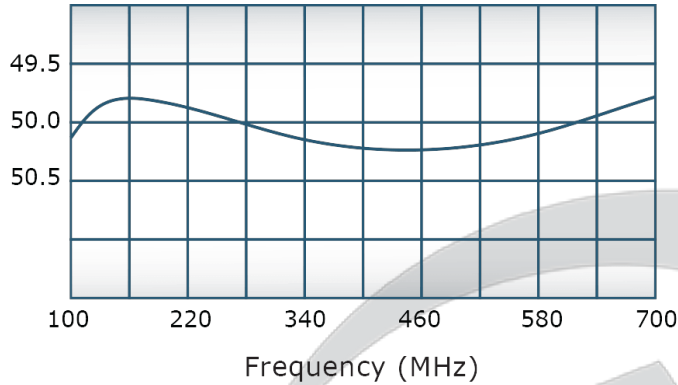


## PRODUCT DATA SHEET

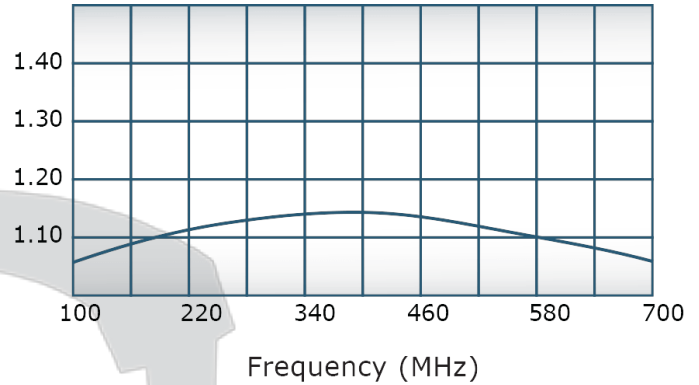
C6411

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

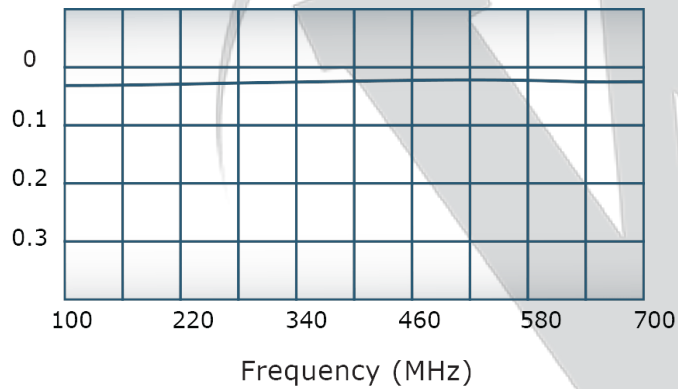
Coupling:



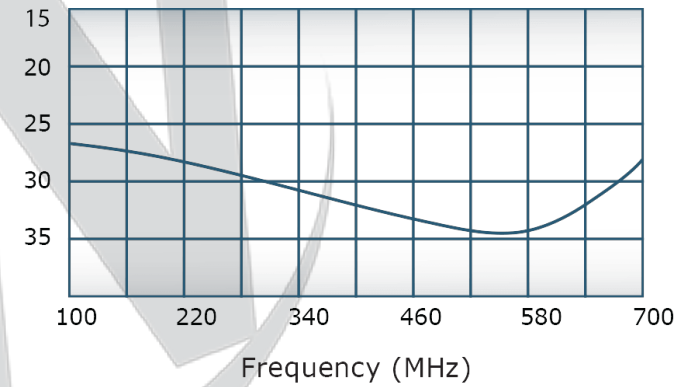
VSWR:



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.





## REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

1. MATERIAL: ALUMINUM 6061-T6  
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 <b>WERLATONE® SINCE 1965</b>	17 Jon Barrett Rd Patterson, NY 12561	
		• INTERPRET DRAWING AS PER: STD-100		RH	7/5/2001			
		• DIMENSIONING PER ASME Y14.5-2009		CHK	DATE			
		• ARCHITECTURAL UNITS FOR KEY ONLY						
		• DIMENSIONS ARE IN INCHES		ENGR	DATE	TITLE		
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MD	7/5/2001	<h1>OUTLINE</h1>		
		• TOLERANCES:				SIZE	CAGE CODE	DWG NO
		ANGLES ± 2° 2 PL ± .002 [13] 3 PL ± .005 [38]		QA		<b>10379-505</b>		RH
		• REMOVE ALL BURS AND SHARP EDGES R.25 MIN				SCALE		
		• CONCENTRICITY MACHINED DIA. .002 FIM		RLSE	DATE	<b>1:1</b>		
		• MACHINE TOOL REGISTRATION .002 MAX				<b>SHEET 1 OF 1</b>		
NEXT ASSY		USED ON						
APPLICATION		THIRD ANGLE PROJECTION 						

**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