

## 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:

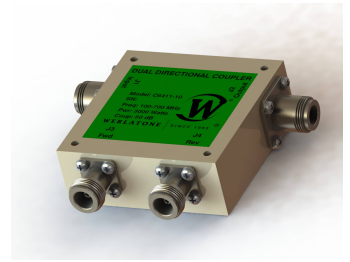
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6411-10	N Female	N Female	N Female	N Female
C6411-12	N Female	N Female	SMA	SMA
C6411-13	N Female	N Female	BNC	BNC
C6411-20*	7/16 Female	7/16 Female	N Female	N Female
C6411-22*	7/16 Female	7/16 Female	SMA	SMA
C6411-23*	7/16 Female	7/16 Female	BNC	BNC
C6411-41	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")



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Model C6411

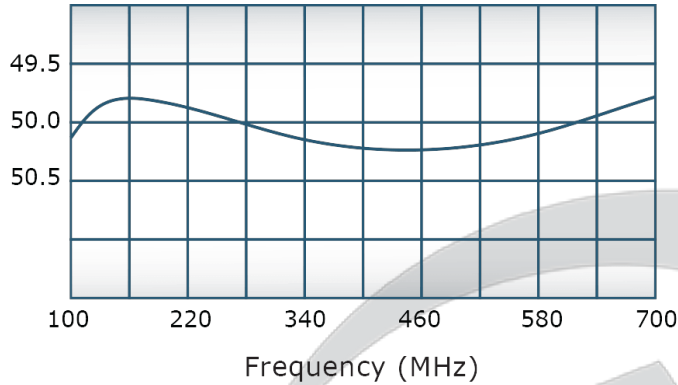


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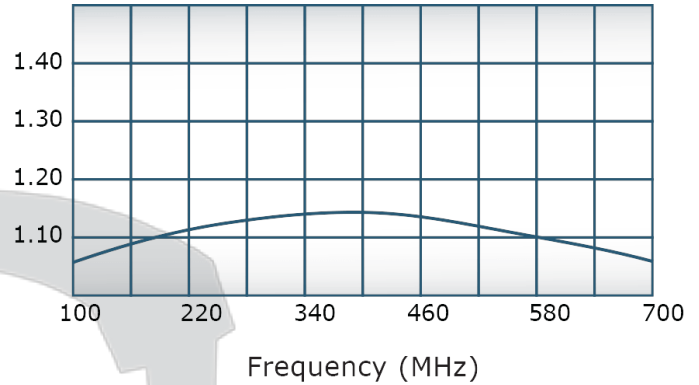
C6411

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

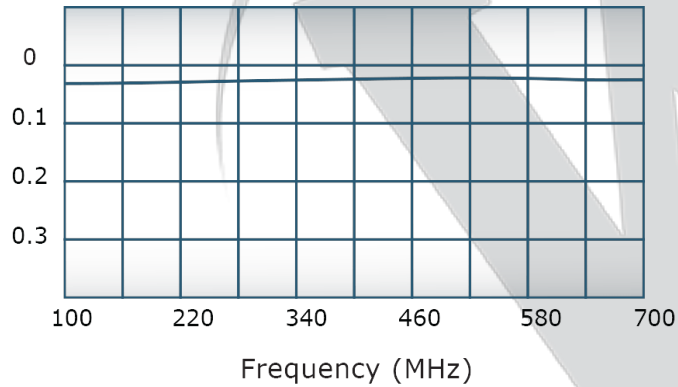
Coupling:



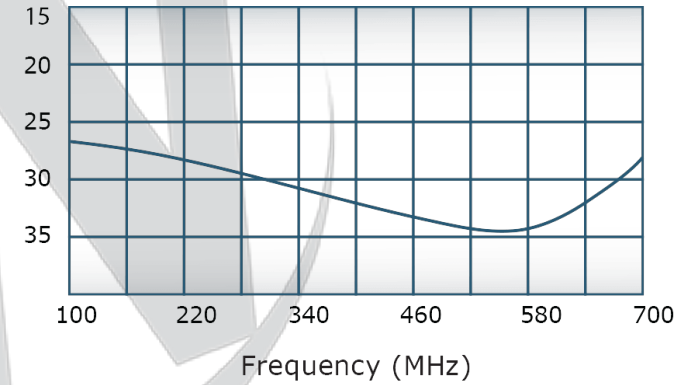
VSWR:



Insertion Loss:



Directivity:



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

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL\_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
• INTERPRET DRAWING JAW MIL-STD-100		RH	7/5/2001	WERLATONE® SINCE 1965	
• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE		
• PARENTHETICAL INFO FOR REF ONLY		ENGR	DATE	TITLE <b>OUTLINE</b>	
• DIMENSIONS ARE IN INCHES		MJ	7/5/2001		
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MPGR	DATE	SIZE	CAGE CODE
• TOLERANCES:		QA	DATE	B	10379-505
• ANGLES ± 2°		RLSE	DATE	SCALE	1:1
• 3 PL. ± .005 [1.3]					
• 2 PL. ± .015 [3.8]					
• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
• CONCENTRICITY MACHINED DIA: .002 FIM					
• MACHINE TOOL MISMATCH: .003 MAX					
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION			
APPLICATION		SHEET 1 OF 1			

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