
**PRODUCT DATA SHEET**
**C5068**

**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: 1000 - 2000 MHz  
Power: 400 W CW  
Coupling:  $40 \pm 1.0$  dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness:  $\pm 0.3$  dB Max.  
VSWR (ML): 1.20:1 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)
C5068-10	N Female	N Female	N Female	N Female
C5068-12	N Female	N Female	SMA	SMA
C5068-13	N Female	N Female	BNC	BNC
C5068-20*	7/16 Female	7/16 Female	N Female	N Female
C5068-22*	7/16 Female	7/16 Female	SMA	SMA
C5068-23*	7/16 Female	7/16 Female	BNC	BNC
C5068-51	C Female	C Female	N Female	N Female
C5068-610	N Female	N Male	N Female	N Female
C5068-714	N Male	N Female	SMA	SMA
C5068-727*	7/16 Male	7/16 Female	N Female	N Female
C5068-728*	7/16 Male	7/16 Female	SMA	SMA

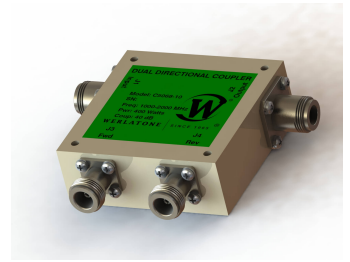
(7/16-F Main Line connector option increases size to 3.0 x 3.0 x 1.59")



# WERLATONE

Model C5068

Connectorized Directional Couplers

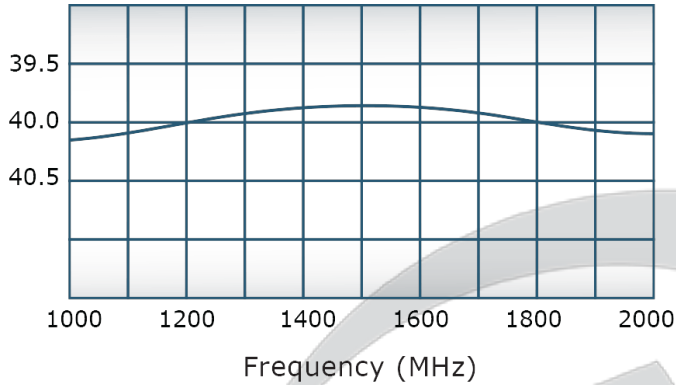


## PRODUCT DATA SHEET

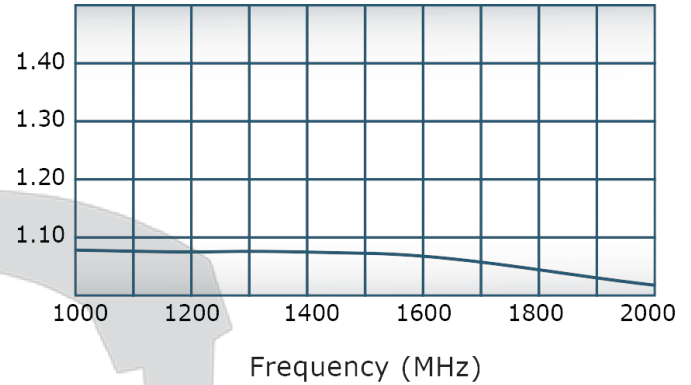
C5068

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

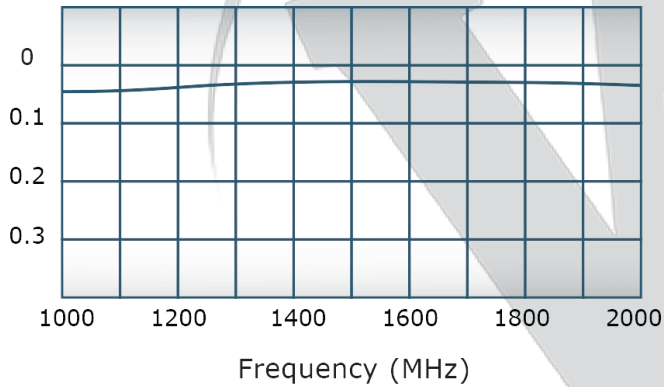
Coupling:



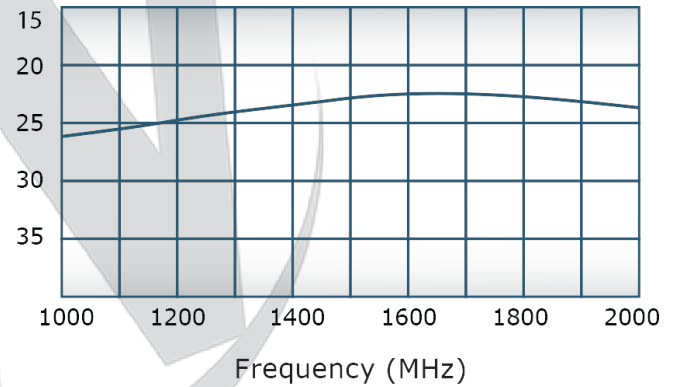
VSWR:



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	
		• INTERPRET DRAWING JAW MIL-STD-100		RH	7/5/2001	Patterson, NY 12563	
		• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	WERLATONE SINCE 1965	
		• PARENTHESES INDIC FOR REF ONLY					
		• DIMENSIONS ARE IN INCHES		ENGR	DATE	TITLE	
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MJ	7/5/2001		
		• TOLERANCES:		MPGR	DATE	OUTLINE	
		• ANGLES ± 2°					
		• 3 PL ± .005 [1.3]		QA	DATE	SIZE	
		• 2 PL ± .015 [3.8]					
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		ELSE	DATE	CAGE CODE	
		• CONCENTRICITY MACHINED DIA: .002 FIM					
		• MACHINE TOOL MISMATCH .003 MAX				DWG NO	
NEXT ASSY		USED ON		SCALE		10379-505	
APPLICATION		THIRD ANGLE PROJECTION 		1:1		REV	
						A	
						SHEET 1 OF 1	

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