



## PRODUCT DATA SHEET

C8076

**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: 800 - 3000 MHz  
Power: 600 W CW  
Coupling:  $50 \pm 1.0$  dB Max.  
Insertion Loss: 0.25 dB Max.  
Flatness:  $\pm 0.5$  dB Max.  
VSWR (ML): 1.30:1 Max.  
Directivity: 15 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)
C8076-10	N Female	N Female	N Female	N Female
C8076-12	N Female	N Female	SMA	SMA
C8076-20*	7/16 Female	7/16 Female	N Female	N Female
C8076-22*	7/16 Female	7/16 Female	SMA	SMA
C8076-43	SC Female	SC Female	SMA	SMA
C8076-51	C Female	C Female	N Female	N Female
C8076-714	N Male	N Female	N Female	N Female
C8076-727*	7/16 Male	7/16 Female	N Female	N Female

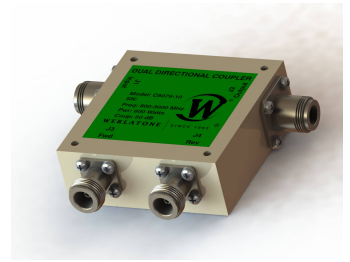
\*Starred options are 3.0 x 3.0 x 1.59"



# WERLATONE

Model C8076

Connectorized Directional Couplers

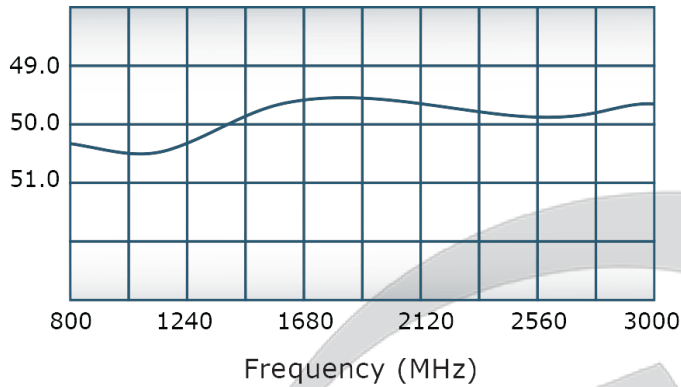


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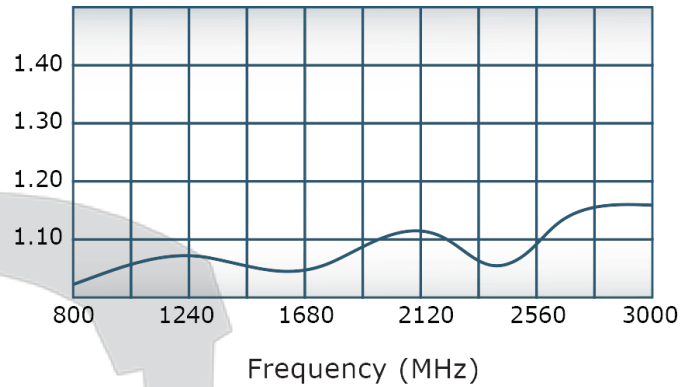
C8076

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

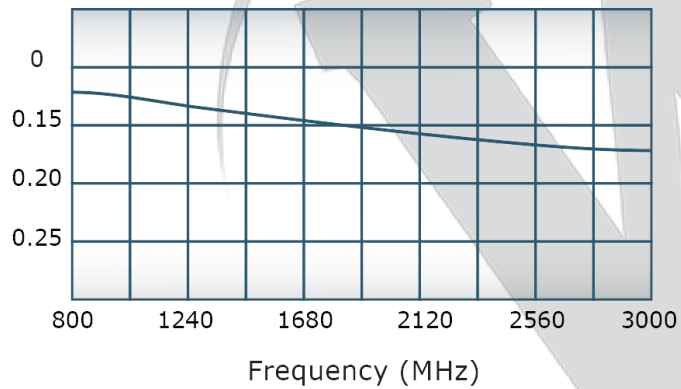
Coupling:



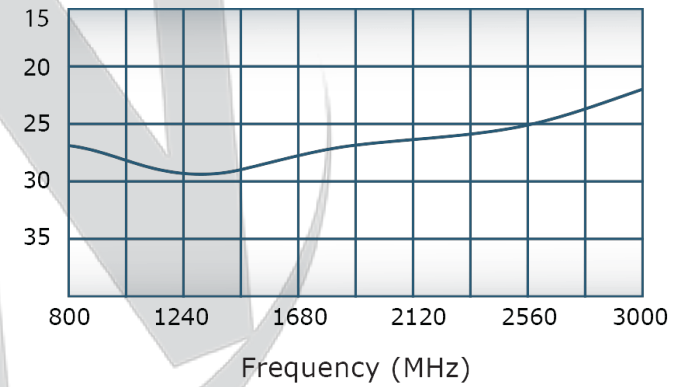
VSWR:



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	<div> WERLATONE SINCE 1965</div>		17 Jon Barrett Rd Patterson, NY 12563	
		• INTERPRET DRAWING JAW MIL-STD-100		RH	7/5/2001				
		• DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	TITLE			
		• PARENTHETICAL INFO FOR REF ONLY		ENGR	DATE				
		• DIMENSIONS ARE IN INCHES		MJ	7/5/2001	OUTLINE			
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MPGR	DATE				
		• TOLERANCES:		QA	DATE	SIZE		CAGE CODE	
		ANGLES: ± 2°		RLSE	DATE				
		2 PL. ± .015 [1.3]				DWG NO		REV	
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX							
		• CONCENTRICITY MACHINED DIA: .002 FIM				10379-505		A	
		• MACHINE TOOL MISMATCH: .003 MAX							
NEXT ASSY		USED ON							
APPLICATION		THIRD ANGLE PROJECTION		<div></div>					
				SCALE 1:1					
				SHEET 1 OF 1					

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