

## PRODUCT DATA SHEET

C6473

**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: 500 - 1000 MHz  
 Power: 1500 W CW  
 Coupling:  $40 \pm 1.0$  dB Max.  
 Insertion Loss: 0.2 dB Max.  
 Flatness:  $\pm 0.25$  dB Max.  
 VSWR (ML): 1.15:1 Max.  
 Directivity: 20 dB Min.

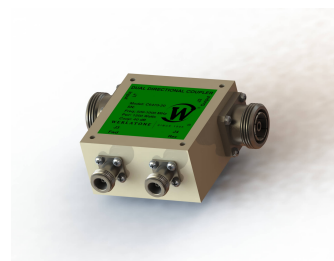
### Mechanical Specifications:

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 1.59"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6473-10*	N Female	N Female	N Female	N Female
C6473-12*	N Female	N Female	SMA	SMA
C6473-13*	N Female	N Female	BNC	BNC
C6473-20	7/16 Female	7/16 Female	N Female	N Female
C6473-22	7/16 Female	7/16 Female	SMA	SMA
C6473-23	7/16 Female	7/16 Female	BNC	BNC
C6473-43*	SC Female	SC Female	SMA	SMA
C6473-627	7/16 Female	7/16 Male	N Female	N Female
C6473-727	7/16 Male	7/16 Female	N Female	N Female
C6473-728	7/16 Male	7/16 Female	SMA	SMA

\*Starred options are 3.0 x 3.0 x 1.09"

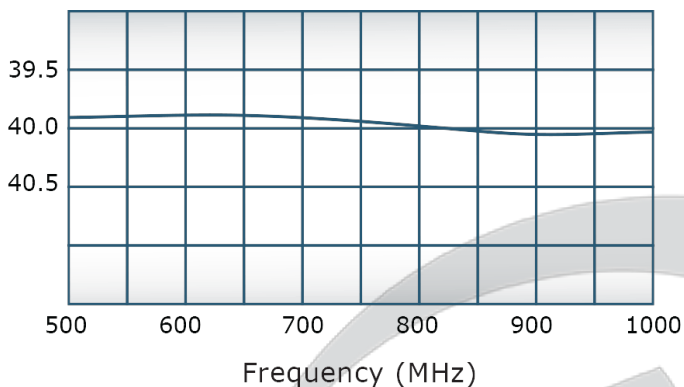


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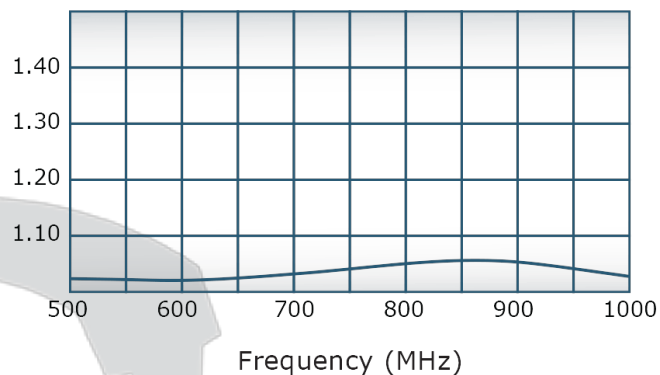
C6473

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

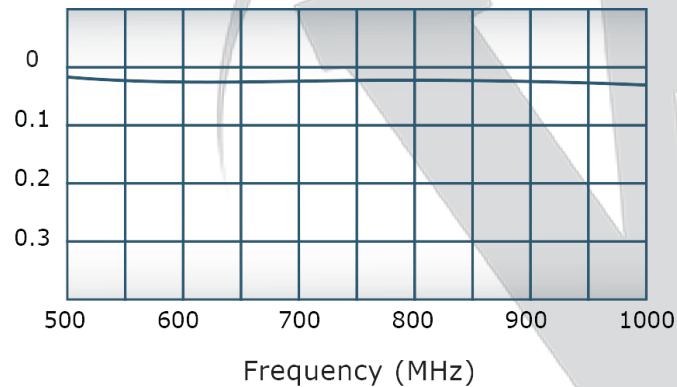
Coupling:



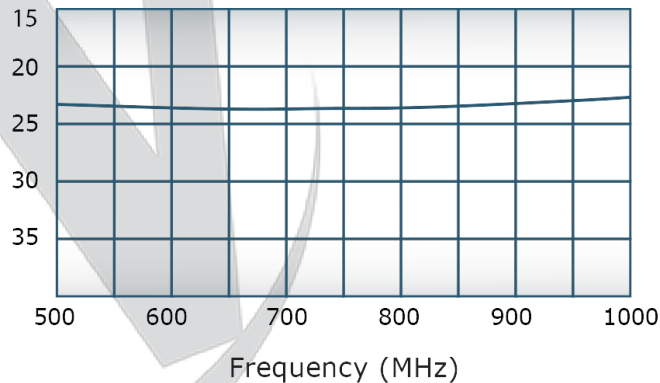
VSWR:



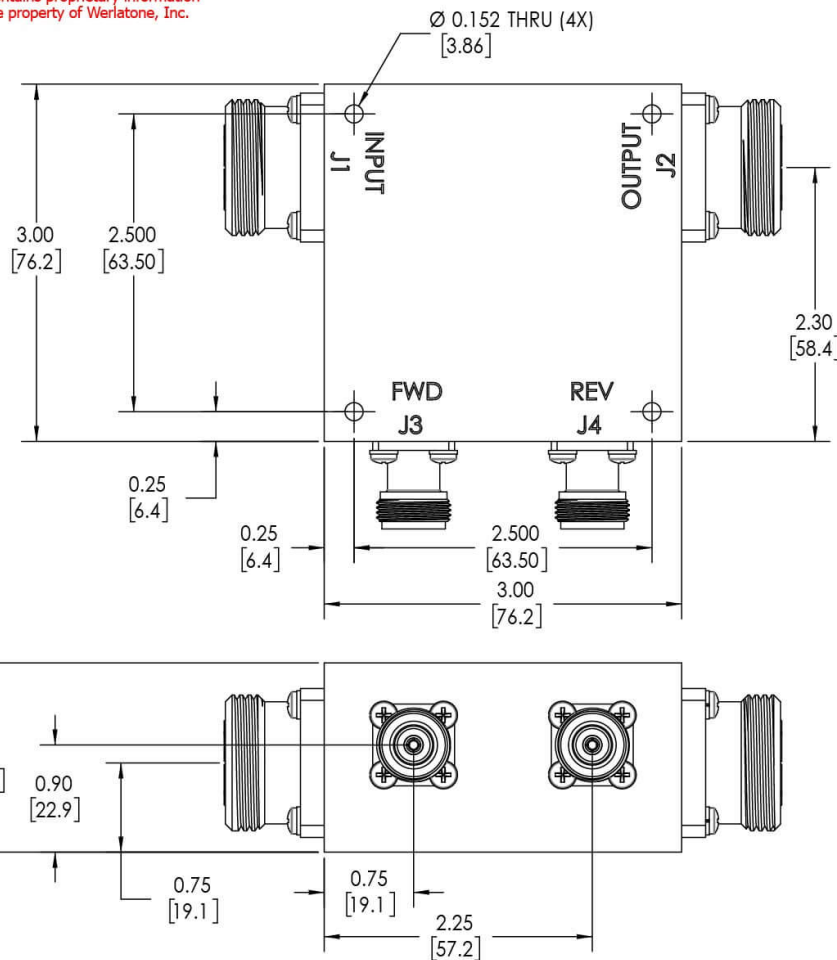
Insertion Loss:



Directivity:




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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/13/2019	RB

- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
  - FINISH: CHEM FILM PER MIL-DTL-5541F CLASS I TYPE 3 (YELLOW IRIDITE)**
  - CONNECTORS:**  
J1, J2: 7/16 FEMALE  
J3, J4: N FEMALE

NEXT ASSY USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED  INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONS FOR ASME Y14.5M-2009 DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE PROCESSES TOLERANCES: ANGLES ± 2° 3 PL ± .005 [13] 2 PL ± .015 [38] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA. .002 FIM MACHINE TOOL MISMATCH .003 MAX		OWN	DATE	 WERLATONE  SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
				SD	5/13/2019		
				CHK	DATE		
				CS	5/13/2019		
		THIRD ANGLE PROJECTION		ENGR	DATE	TITLE  <b>OUTLINE</b>  SIZE CAGE CODE DWG NO <b>B 10443-501</b>  SCALE 1:1	REV  <b>A</b>  SHEET 1 OF 1
				INGR	DATE		
				QA	DATE		
				RLSE	DATE		

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