
**PRODUCT DATA SHEET**
**C6461**

**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: 400 - 1000 MHz  
Power: 1500 W CW  
Coupling:  $50 \pm 1.0$  dB Max.  
Flatness:  $\pm 0.3$  dB Max.  
Insertion Loss: 0.1 dB Max.  
VSWR (ML): 1.10:1 Max.  
Directivity: 23 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"

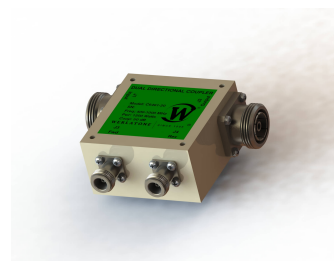
**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6461-10*	N Female	N Female	N Female	N Female
C6461-12*	N Female	N Female	SMA	SMA
C6461-20	7/16 Female	7/16 Female	N Female	N Female
C6461-22	7/16 Female	7/16 Female	SMA	SMA
C6461-23	7/16 Female	7/16 Female	BNC	BNC
C6461-41*	SC Female	SC Female	N Female	N Female
C6461-43*	SC Female	SC Female	SMA	SMA
C6461-627	7/16 Female	7/16 Female	N Female	N Female
C6461-727	7/16 Male	7/16 Female	N Female	N Female
C6461-728	7/16 Male	7/16 Female	SMA	SMA
C6461-12STS*	Stainless Steel N Female	Stainless Steel N Female	Stainless Steel SMA	Stainless Steel SMA

\*Starred options are 3.0 x 3.0 x 1.09"

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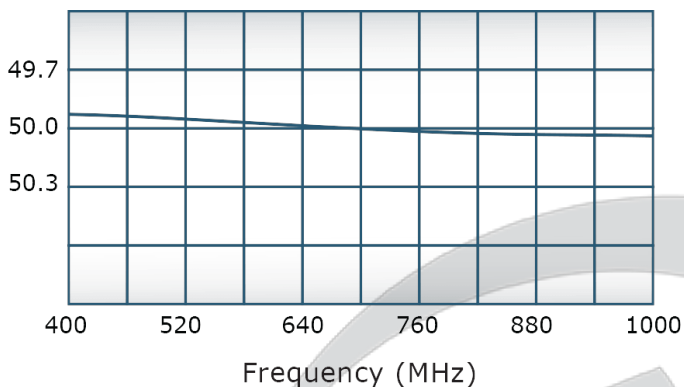


## PRODUCT DATA SHEET

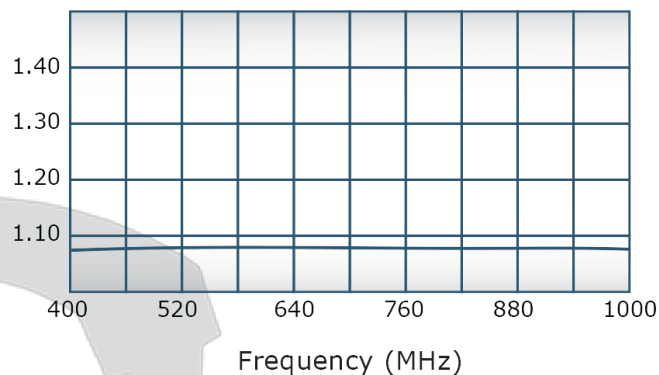
C6461

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

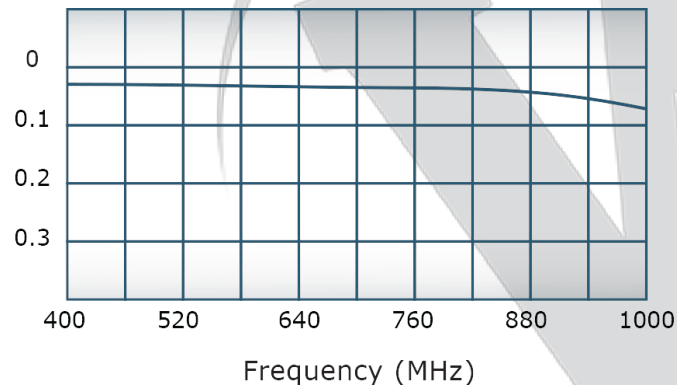
Coupling:



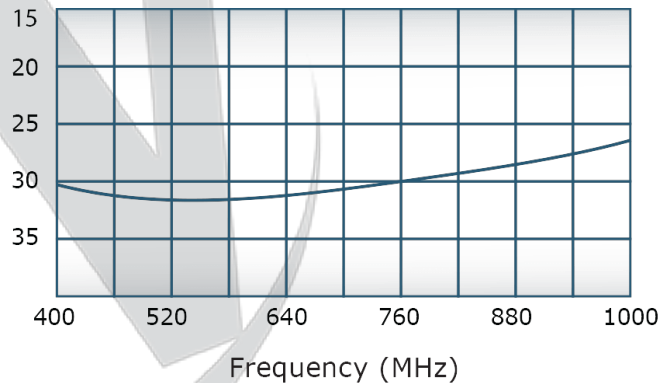
VSWR:



Insertion Loss:



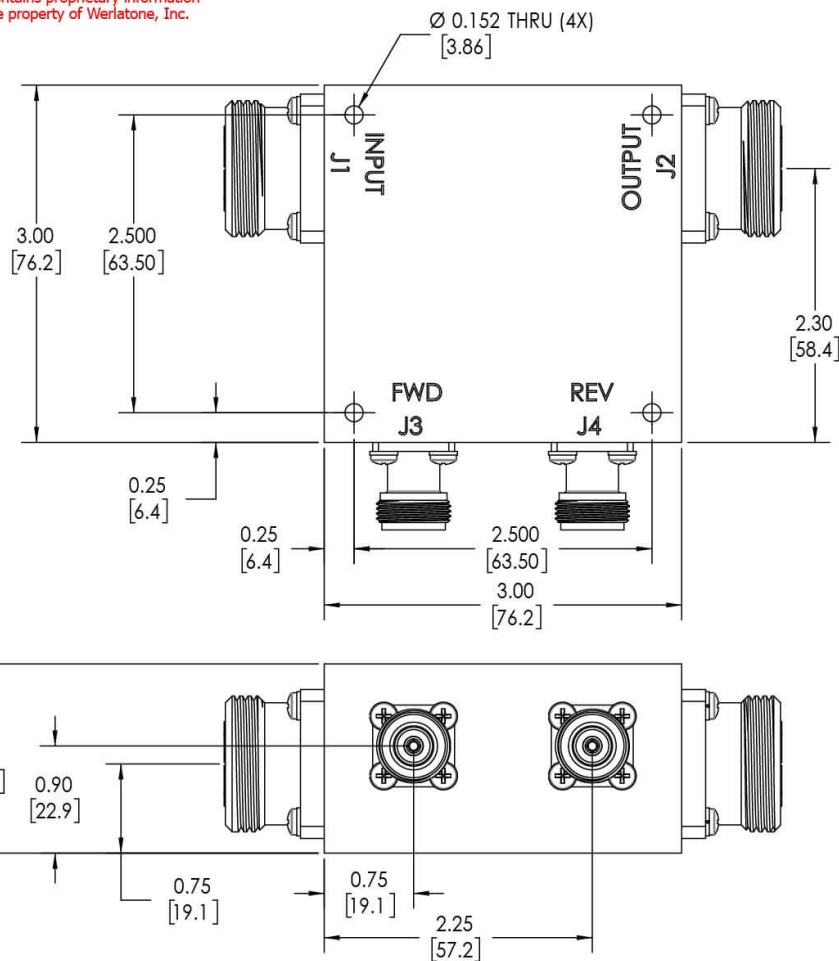
Directivity:



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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

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

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