
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 ± 1.0 dB Max.
Flatness: ± 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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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



WERLATONE

Model C6461

Connectorized Directional Couplers

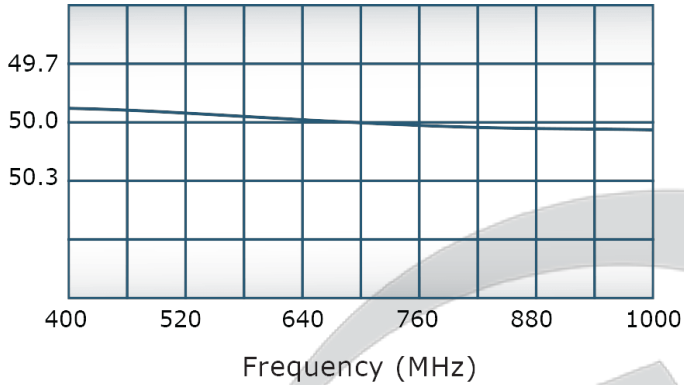


PRODUCT DATA SHEET

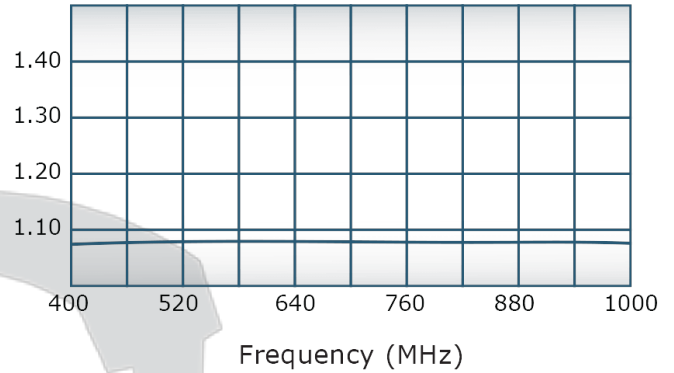
C6461

Performance Data (Specifications subject to change without notice):

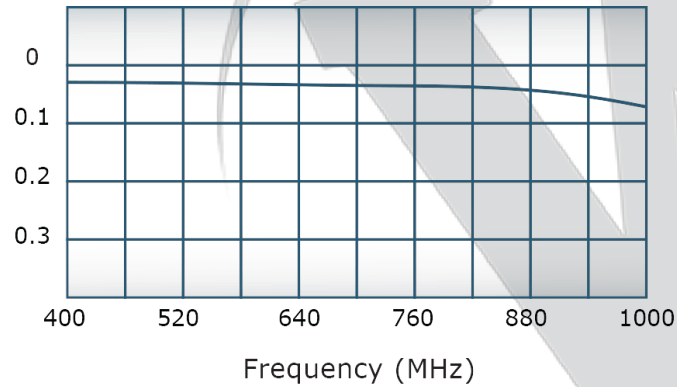
Coupling:



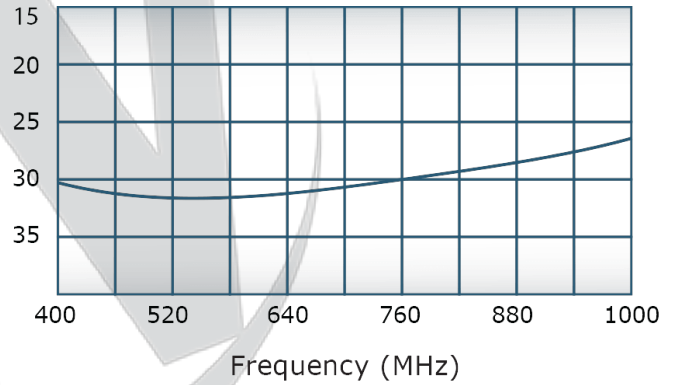
VSWR:



Insertion Loss:



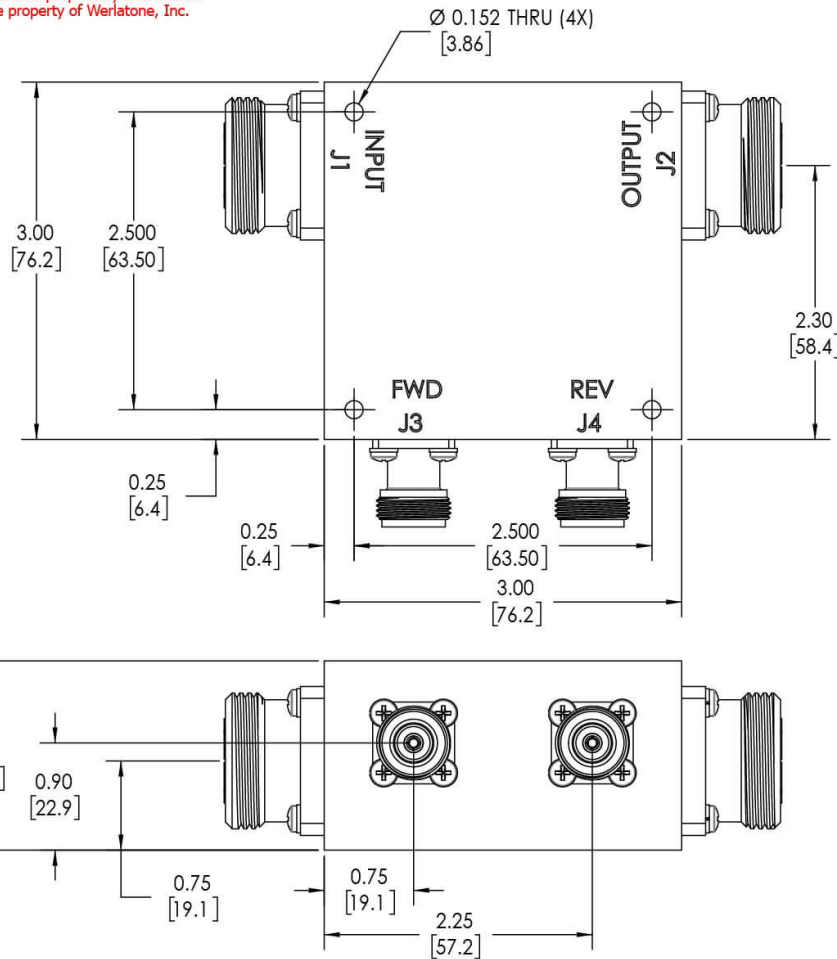
Directivity:



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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

UNLESS OTHERWISE SPECIFIED INTERPRET DRAWING IN ACC. WITH MIL-STD-100 DIMENSIONS PER ASME Y14.5M-2009 DIMENSIONAL INFO FOR REF ONLY 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		
NEXT ASSY USED ON APPLICATION	THIRD ANGLE PROJECTION 	ENGR	DATE	OUTLINE SIZE CAGE CODE DWG NO B 10443-501 SCALE 1:1	REV A
		INFR	DATE		
		QA	DATE		
		RLSE	DATE		
		SHEET 1 OF 1			

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