

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"

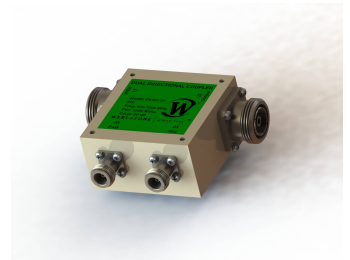
Connector Configurations:

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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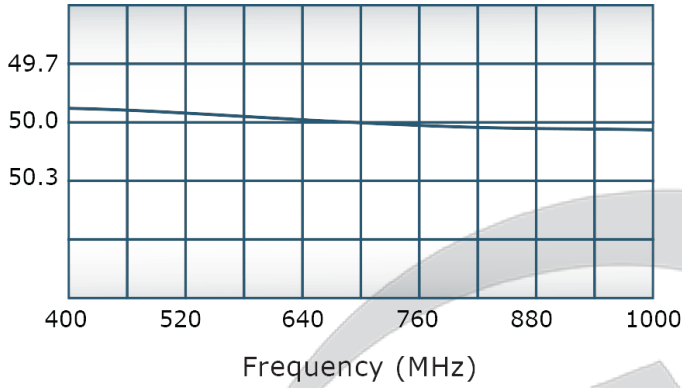


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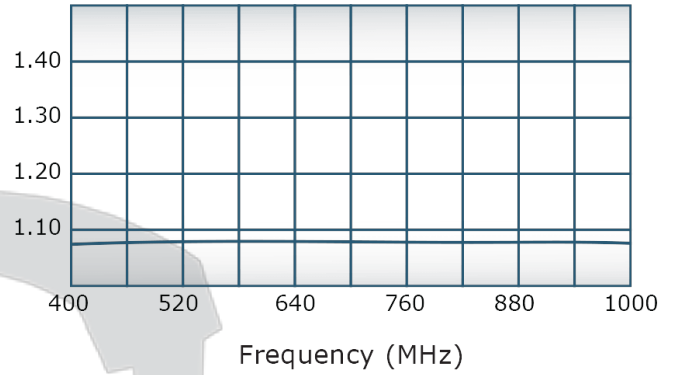
C6461

Performance Data (Specifications subject to change without notice):

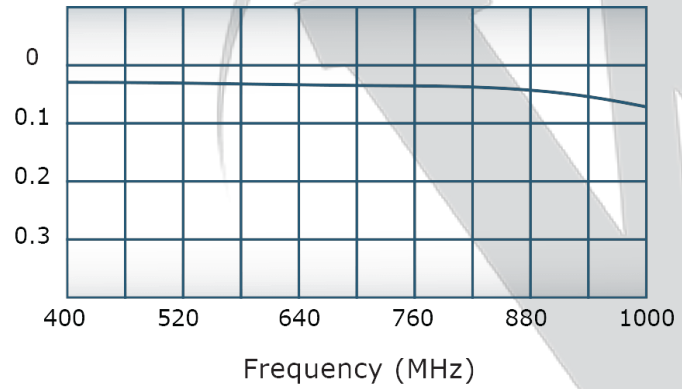
Coupling:



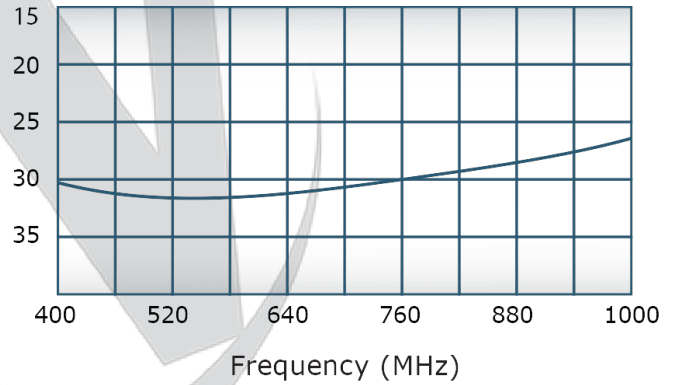
VSWR:



Insertion Loss:



Directivity:



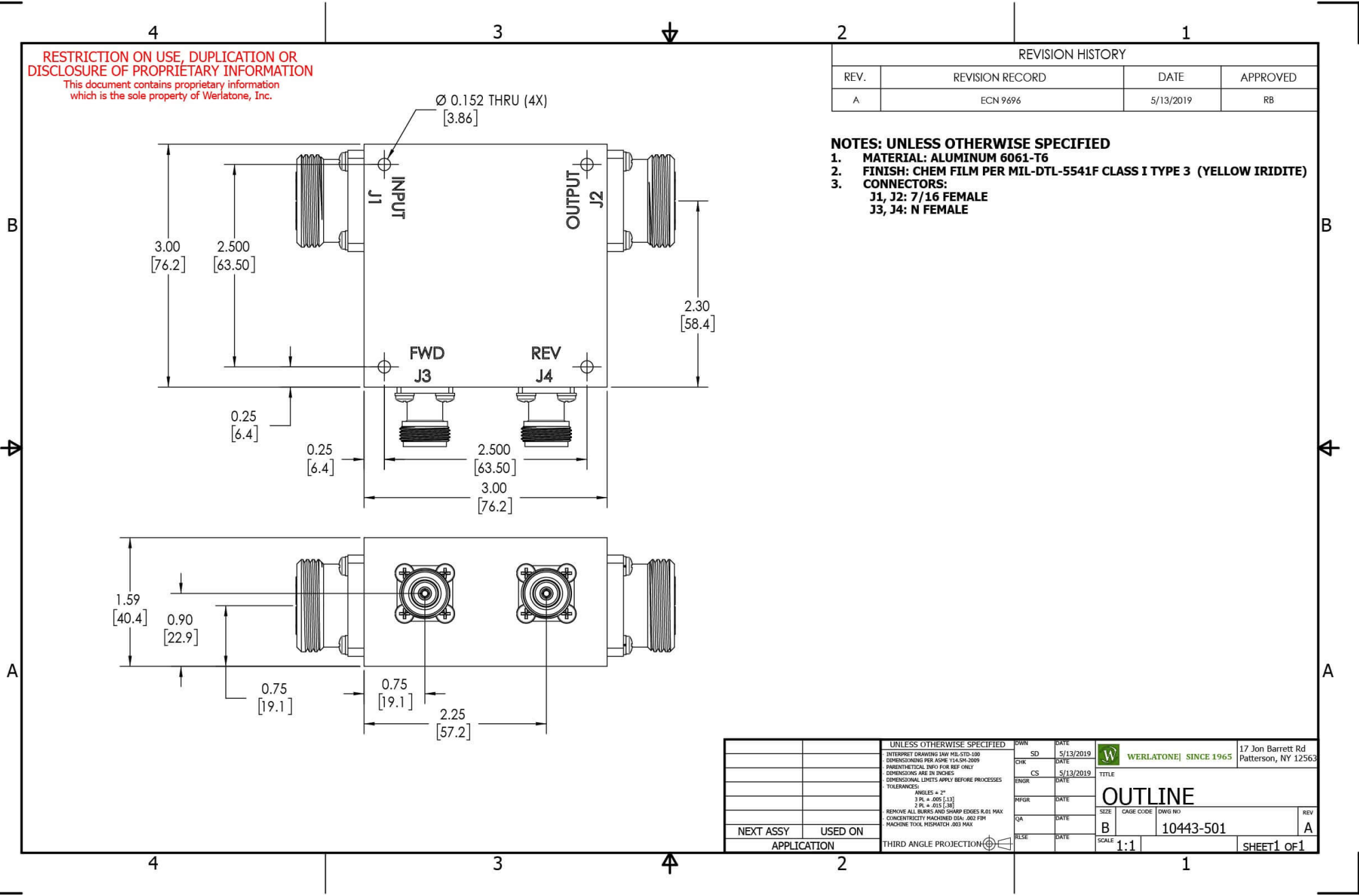
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REVISION HISTORY

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

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