


**PRODUCT DATA SHEET**
**C9613**

**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:**

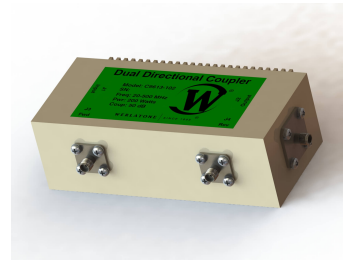
Frequency:      20 - 500 MHz  
 Power:          200 W CW  
 Coupling:        50 ± 1.0 dB Max.  
 Insertion Loss: 0.35 dB Max.  
 Flatness:        ± 0.5 dB Max.  
 VSWR (ML):    1.30:1 Max.  
 Directivity:     20 dB Min.

**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:              5.2 x 2.67 x 1.69"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C9613-10	N Female	N Female	N Female	N Female
C9613-12	N Female	N Female	SMA	SMA
C9613-13	N Female	N Female	BNC	BNC
C9613-102	SMA	SMA	SMA	SMA
C9613-304	TNC Male	TNC Female	SMA	SMA
C9613-610	N Female	N Male	N Female	N Female
C9613-614	N Female	N Male	SMA	SMA
C9613-714	N Male	N Female	N Female	N Female

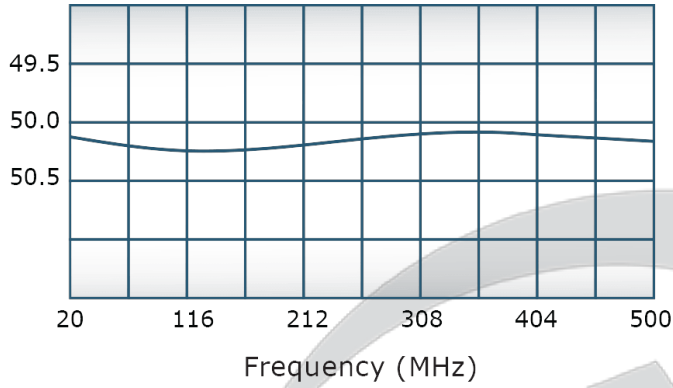


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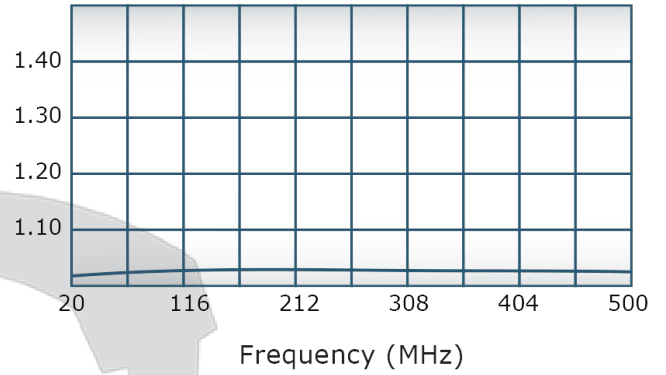
C9613

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

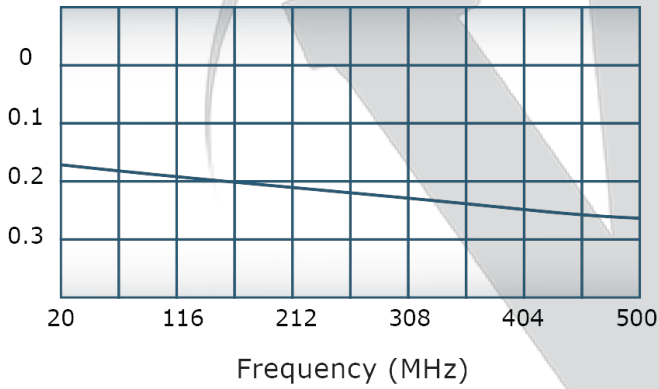
Coupling:



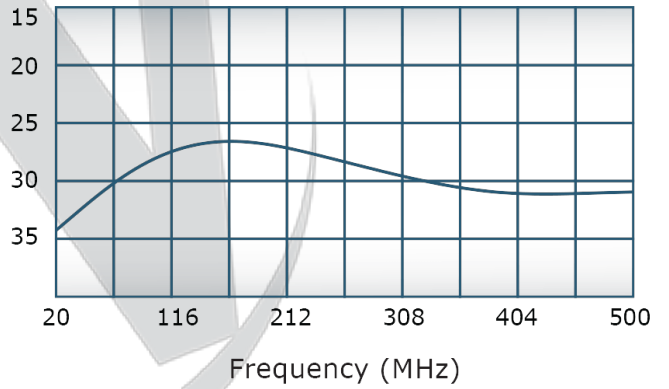
VSWR:



Insertion Loss:



Directivity:



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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

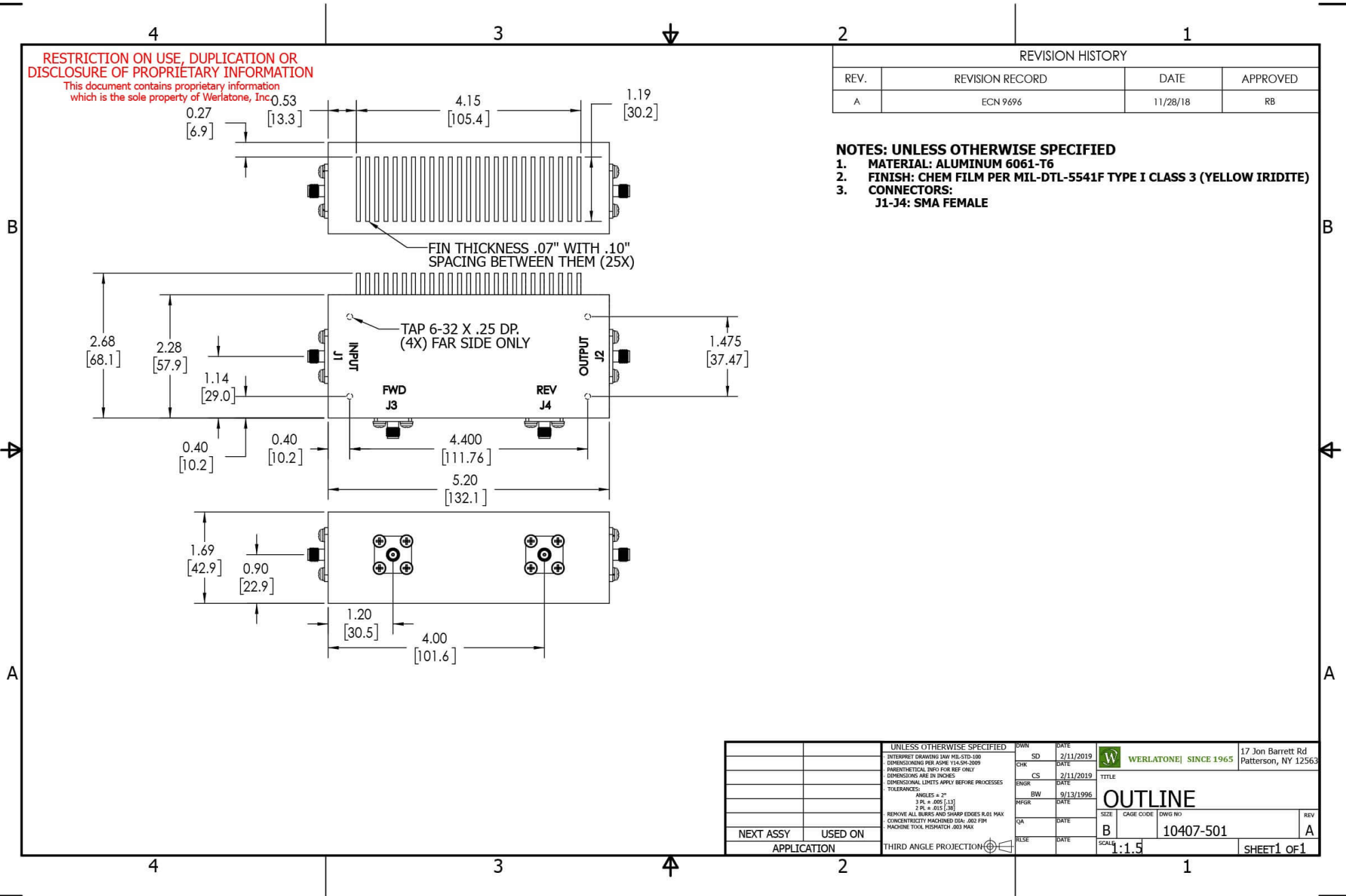
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS: J1-J4: SMA FEMALE**



UNLESS OTHERWISE SPECIFIED		DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERRUPT DRAWING IAW MIL-STD-100	SD	2/11/2019	W WERLATONE SINCE 1965
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE	
PARENTHEetical INFO FOR REF ONLY	CS	2/11/2019	TITLE
DIMENSIONS ARE IN INCHES	ENGR	DATE	OUTLINE
DIMENSIONAL LINES APPLY BEFORE PROCESSES	BW	9/13/1996	SIZE CAGE CODE DWG NO
TOLERANCES:	QA	DATE	B 10407-501
ANGLES ± 2°	RLSE	DATE	SCALE 1:1.5
3 PL ± .005 (1.3)			REV A
2 PL ± .015 (1.38)			SHEET 1 OF 1
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
CONCENTRICITY MACHINED DIA: .002 FIM			
MACHINE TOOL MISMATCH .003 MAX			

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