



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



WERLATONE

Model C9613

Connectorized Directional Couplers

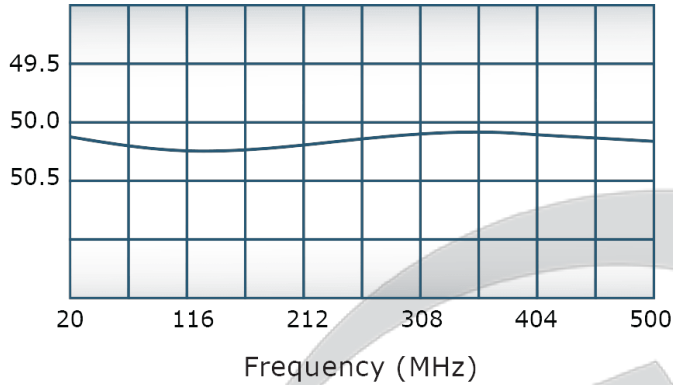


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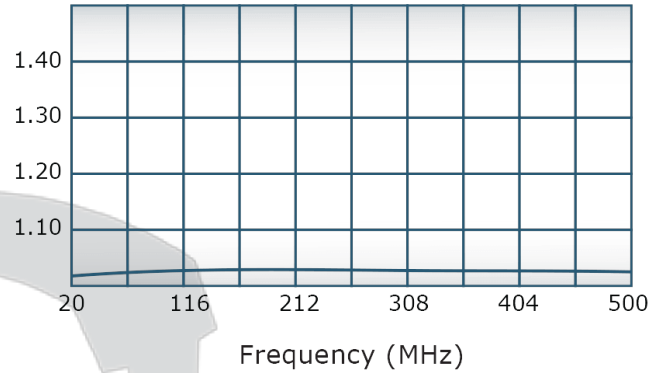
C9613

Performance Data (Specifications subject to change without notice):

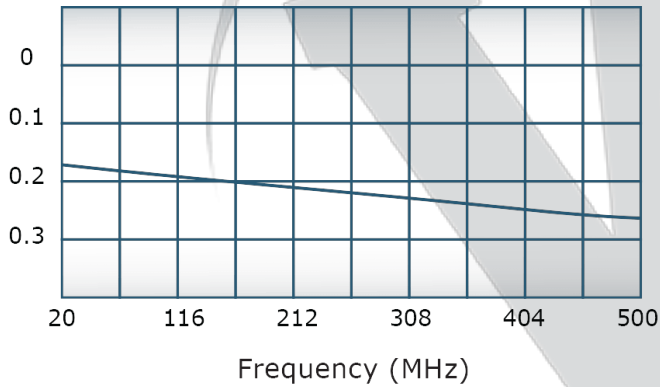
Coupling:



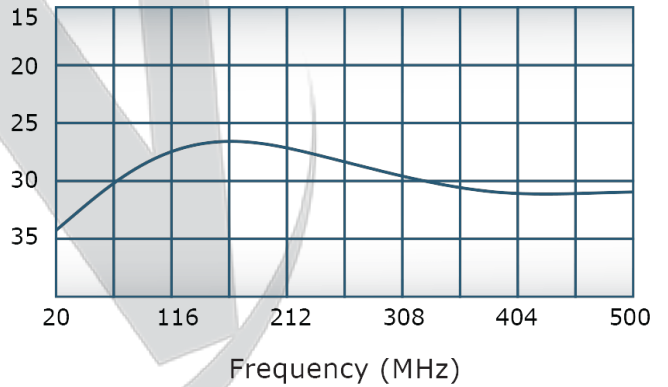
VSWR:



Insertion Loss:



Directivity:



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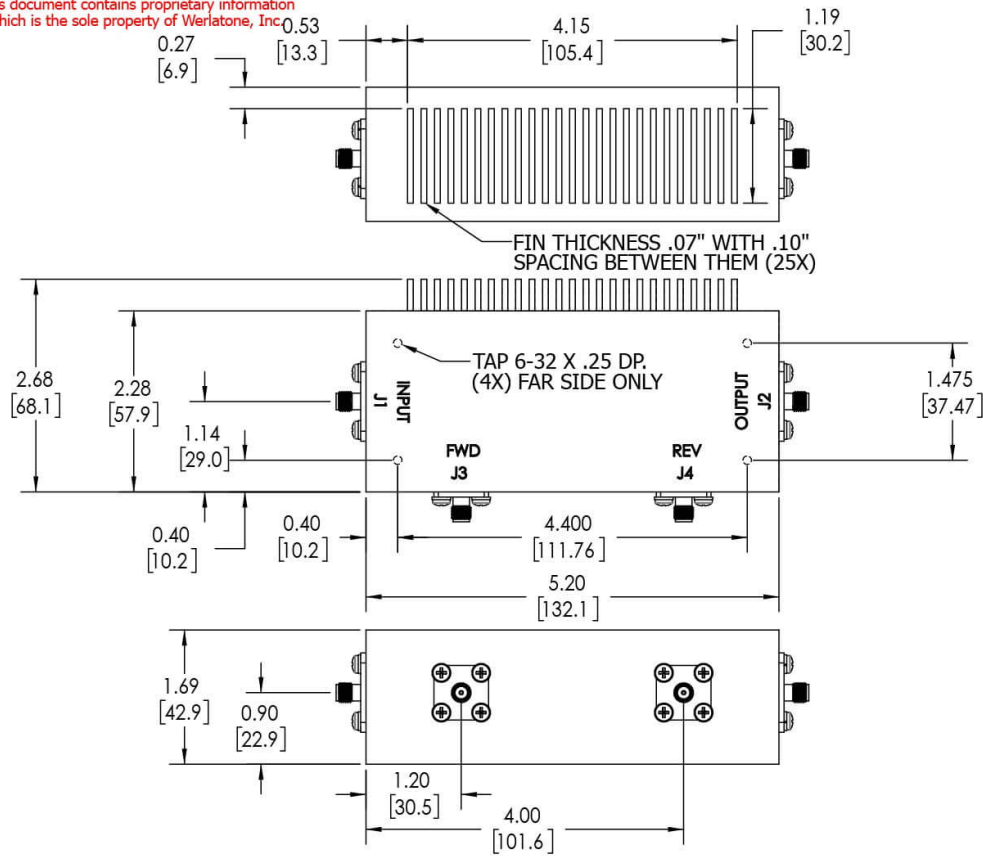
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	RB

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		OWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	2/11/2019				
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE				
		PARENTHESES INFO FOR REF ONLY		CS	2/11/2019	TITLE			
		DIMENSIONS ARE IN INCHES		ENGR	DATE				
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		BW	9/13/1996				
		TOLERANCES:		INFR	DATE				
		ANGLES ± 2°		QA	DATE				
		3 PL ± .005 [13]		RLSE	DATE				
		2 PL ± .015 [38]							
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				SIZE		CAGE CODE	
		CONCENTRICITY MACHINED DIA. .002 FIM				DWG NO		REV	
		MACHINE TOOL MISMATCH .003 MAX				B		10407-501	
		THIRD ANGLE PROJECTION				SCALE		SHEET 1 OF 1	
						1:1.5			
NEXT ASSY		USED ON						A	
APPLICATION									

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