



WERLATONE

Model C9613

Connectorized Directional Couplers



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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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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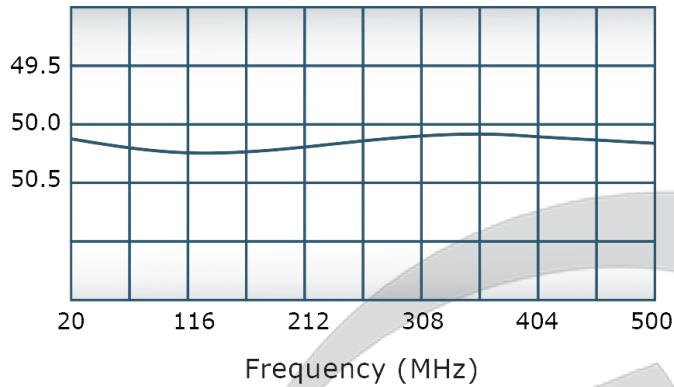


PRODUCT DATA SHEET

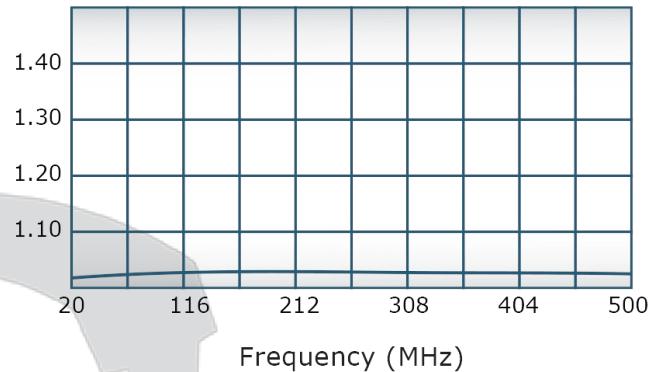
C9613

Performance Data (Specifications subject to change without notice):

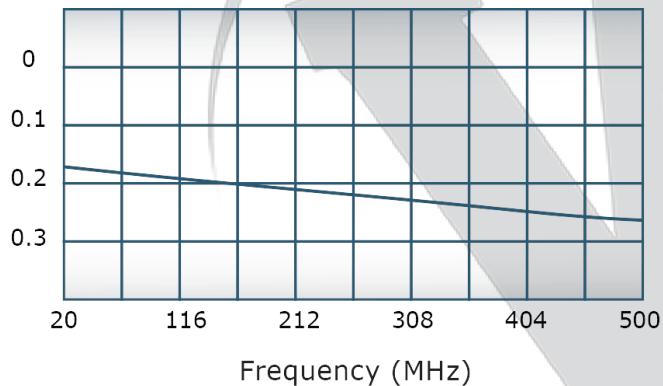
Coupling:



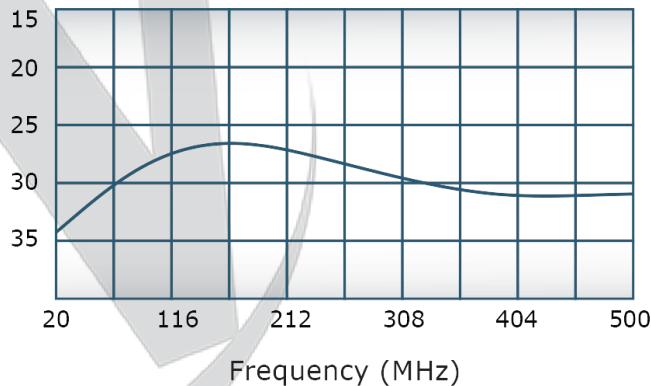
VSWR:



Insertion Loss:



Directivity:



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3

2

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0.53

0.27

[6.9]

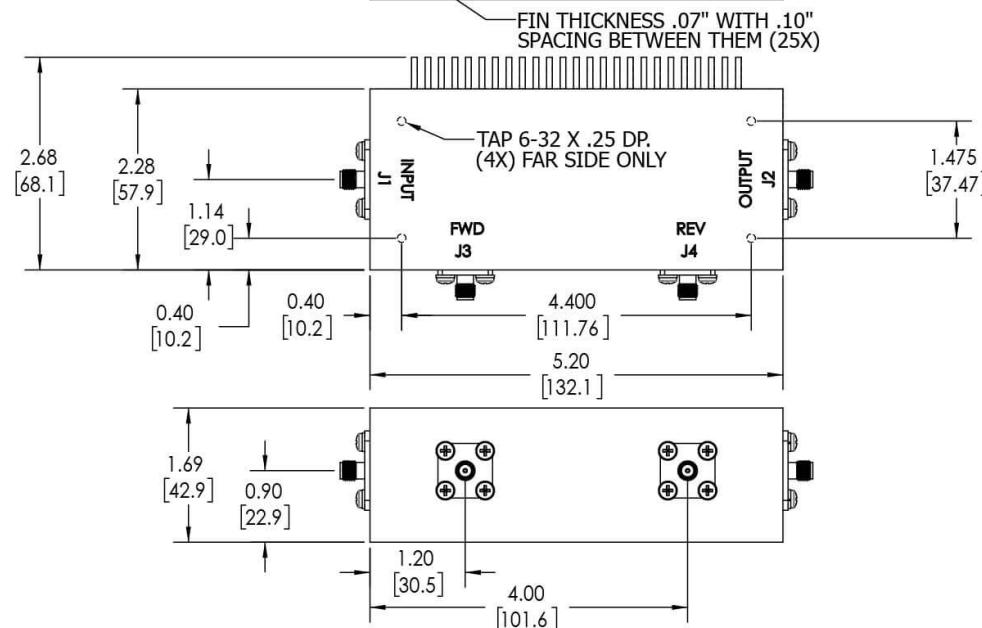
4.15

[105.4]

1.19

[30.2]

B



NOTES: UNLESS OTHERWISE SPECIFIED

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

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

UNLESS OTHERWISE SPECIFIED	DN	DATE	17 Jon Barrett Rd
INTERPRET DRAWING AS MIL-STD-100	SD	2/11/2019	WERLATONE SINCE 1965
INTERPRET ASSEMBLY AS 114-SM-2009	CHK	DATE	Patterson, NY 12563
PARENTHETICAL TEXT FOR REFERENCE ONLY	CS	2/11/2019	
DIMENSIONS ARE IN INCHES	ENGR	DATE	
TOLERANCES	BW	9/13/1996	
ANGLES $\pm 2^\circ$	MFGR	DATE	
3 RL $\pm .005$	QA	DATE	
2 RL $\pm .012$	RELEASE	DATE	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
CONCENTRICITY MACHINED DIA. .002 FIM			
MACHINE TOOL MISMATCH .003 MAX			
NEXT ASSY	USED ON	SIZE	REV
APPLICATION	THIRD ANGLE PROJECTION	CAGE CODE	
		DWG NO	
		B	A
		10407-501	
		SCALE	
		1:1.5	
		SHEET	
		1 OF 1	

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