
PRODUCT DATA SHEET
C6504

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: 123 - 133 MHz
 Power: 2250 W CW
 Coupling: 50 ± 1.0 dB Max.
 Insertion Loss: 0.15 dB Max.
 Flatness: ± 0.5 dB Max.
 VSWR (ML): 1.20:1 Max.
 Directivity: 25 dB Min.

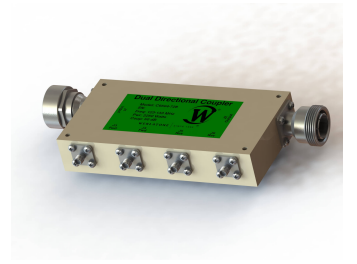
Mechanical Specifications:

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: 6.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6504-22	7/16 Female	7/16 Female	SMA	SMA
C6504-728	7/16 Male	7/16 Female	SMA	SMA

Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.

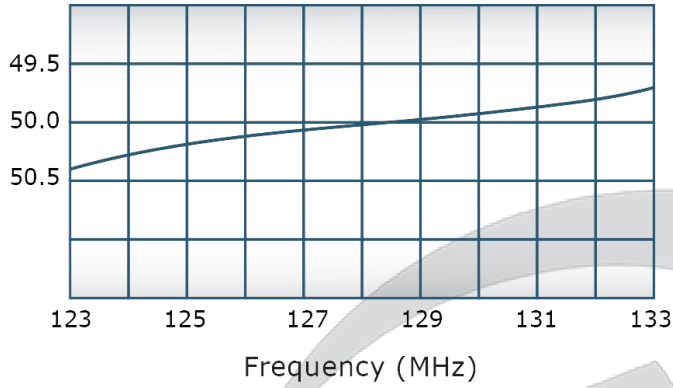


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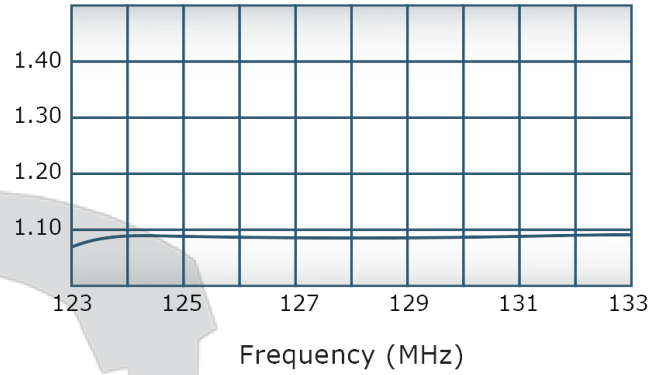
C6504

Performance Data (Specifications subject to change without notice):

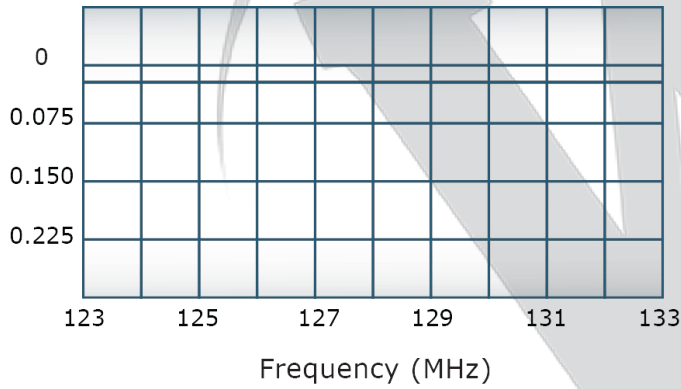
Coupling:



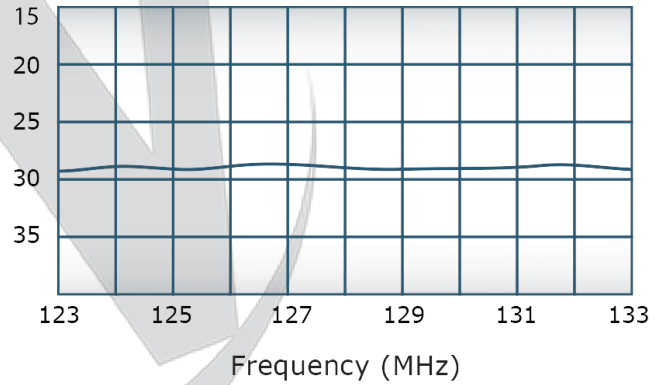
VSWR:



Insertion Loss:



Directivity:



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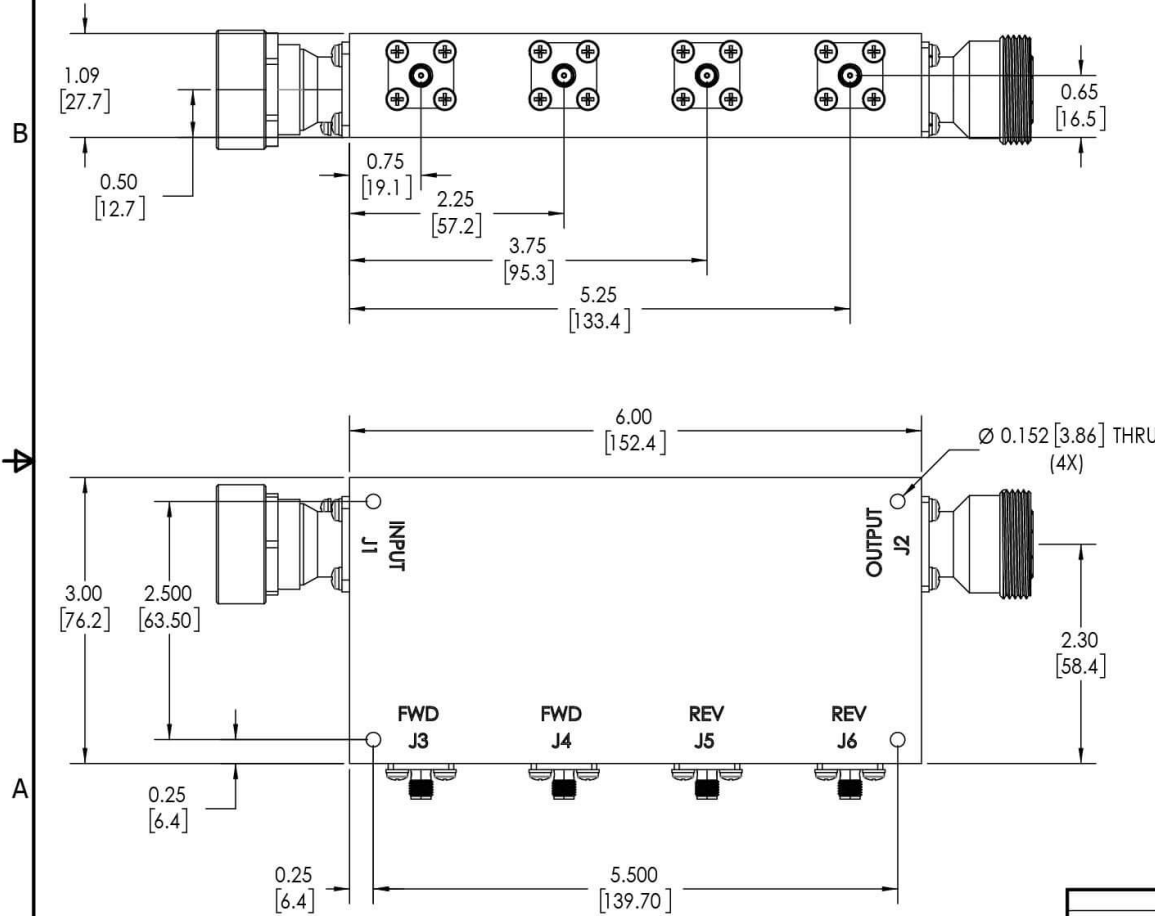
Werlatone, Inc.

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 2034	6/12/2001	CS
B	ECN 9696	6/18/2019	RB

- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
 - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
 - CONNECTORS:**
 J1: 7/16 MALE
 J2: 7/16 FEMALE
 J3-J6: SMA FEMALE



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	6/18/2019	DATE	
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE	CS	TITLE
PARENTHEetical INFO FOR REF ONLY	ENGR	DATE	6/18/2019	OUTLINE
DIMENSIONS ARE IN INCHES	INFR	DATE		SIZE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	QA	DATE		CAGE CODE
TOLERANCES:	RLSE	DATE		DWG NO
ANGLES = 2°				10750-500
3 PL ± .005 (.13)				SCALE
2 PL ± .015 (.38)				1:1.25
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				REV
CONCENTRICITY MACHINED DIA: .002 FIM				B
MACHINE TOOL MISMATCH .003 MAX				B
NEXT ASSY	USED ON			SHEET 1 OF 1
APPLICATION	THIRD ANGLE PROJECTION			

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