



PRODUCT DATA SHEET

C6442

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: 0.01 - 400 MHz
Power: 100 W CW, 300 W Peak
Coupling: 30 ± 1.0 dB Max.
Flatness: ± 0.5 dB Max.
Insertion Loss: 0.8 dB Max.
VSWR (ML): 1.25:1 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)
C6442-10	N Female	N Female	N Female	N Female
C6442-12	N Female	N Female	SMA	SMA
C6442-13	N Female	N Female	BNC	BNC
C6442-102	SMA	SMA	SMA	SMA
C6442-200	BNC	BNC	BNC	BNC

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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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



WERLATONE

Model C6442

Connectorized Directional Couplers

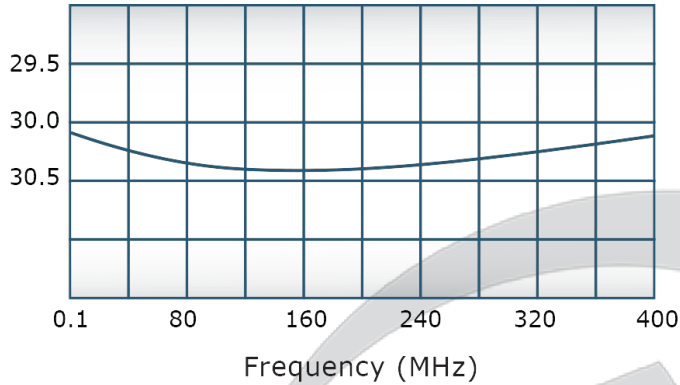


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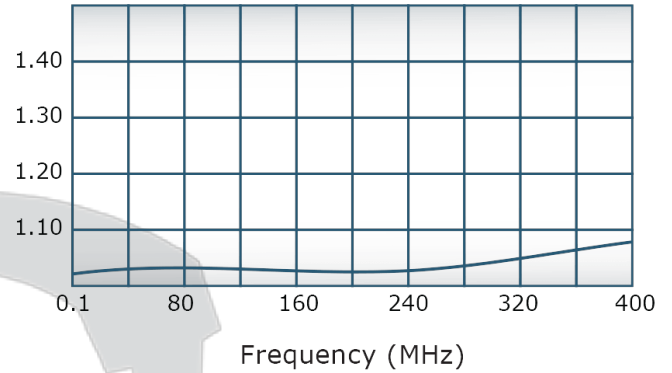
C6442

Performance Data (Specifications subject to change without notice):

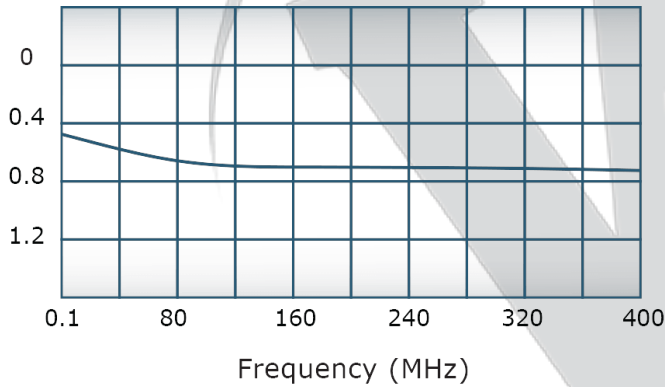
Coupling:



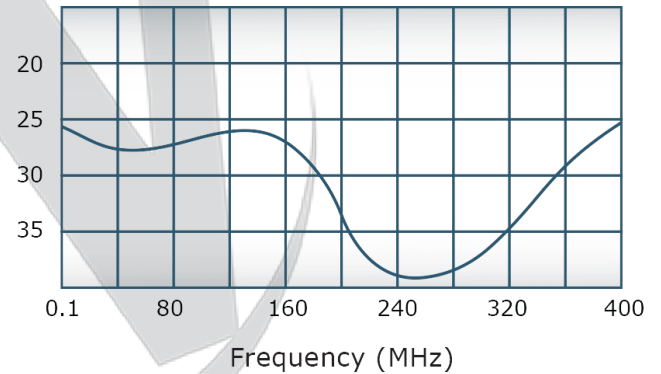
VSWR:



Insertion Loss:



Directivity:



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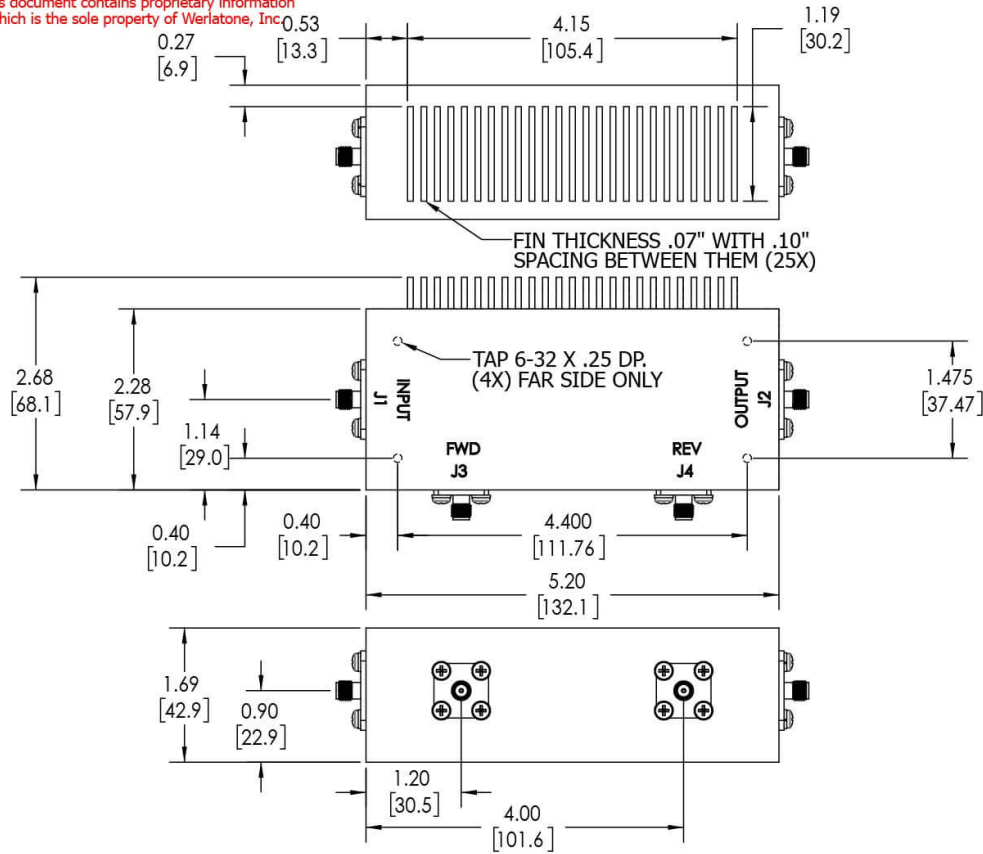
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	RB

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	TITLE	OUTLINE	
PARENTHESES ARE FOR REF ONLY		CS	2/11/2019			
DIMENSIONS ARE IN INCHES		ENGR	DATE	SIZE CAGE CODE DWG NO	10407-501	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		BW	9/13/1996			
TOLERANCES:		INFR	DATE	SCALE	1:1.5	
ANGLES ± 2°		QA	DATE			
3 PL ± .005 [.13]		RLSE	DATE	THIRD ANGLE PROJECTION 		SHEET 1 OF 1
2 PL ± .015 [.38]						
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		APPLICATION				
CONCENTRICITY MACHINED DIA. .002 FIM						
MACHINE TOOL MISMATCH .003 MAX						
NEXT ASSY		USED ON				

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