



PRODUCT DATA SHEET

C7325

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: 0.1 - 250 MHz
Power: 1000 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.15 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.15:1 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: 6.0 x 2.2 x 2.2"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C7325-10	N Female	N Female	N Female	N Female
C7325-12	N Female	N Female	SMA	SMA
C7325-13	N Female	N Female	BNC	BNC
C7325-20	7/16 Female	7/16 Female	N Female	N Female
C7325-64	HN Female	HN Female	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

Model C7325

Connectorized Directional Couplers

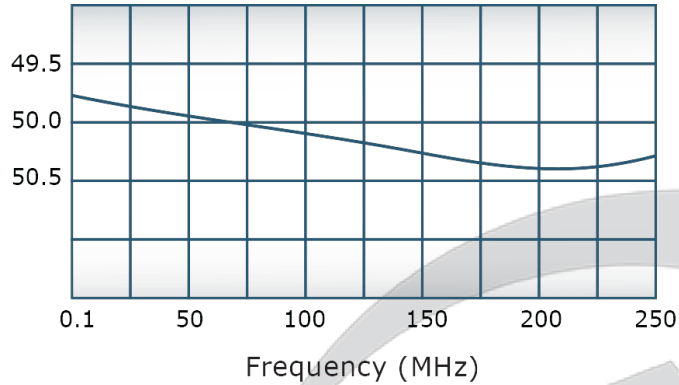


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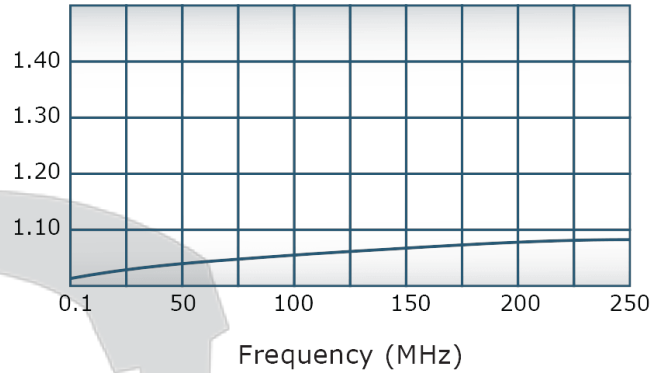
C7325

Performance Data (Specifications subject to change without notice):

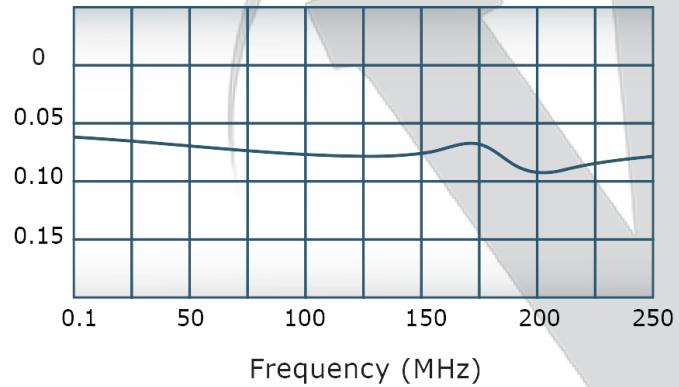
Coupling:



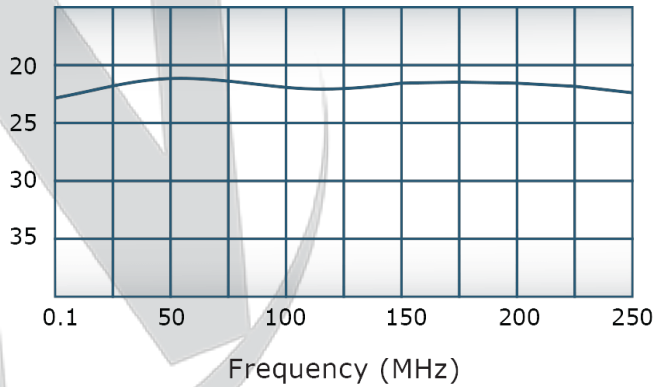
VSWR:



Insertion Loss:



Directivity:

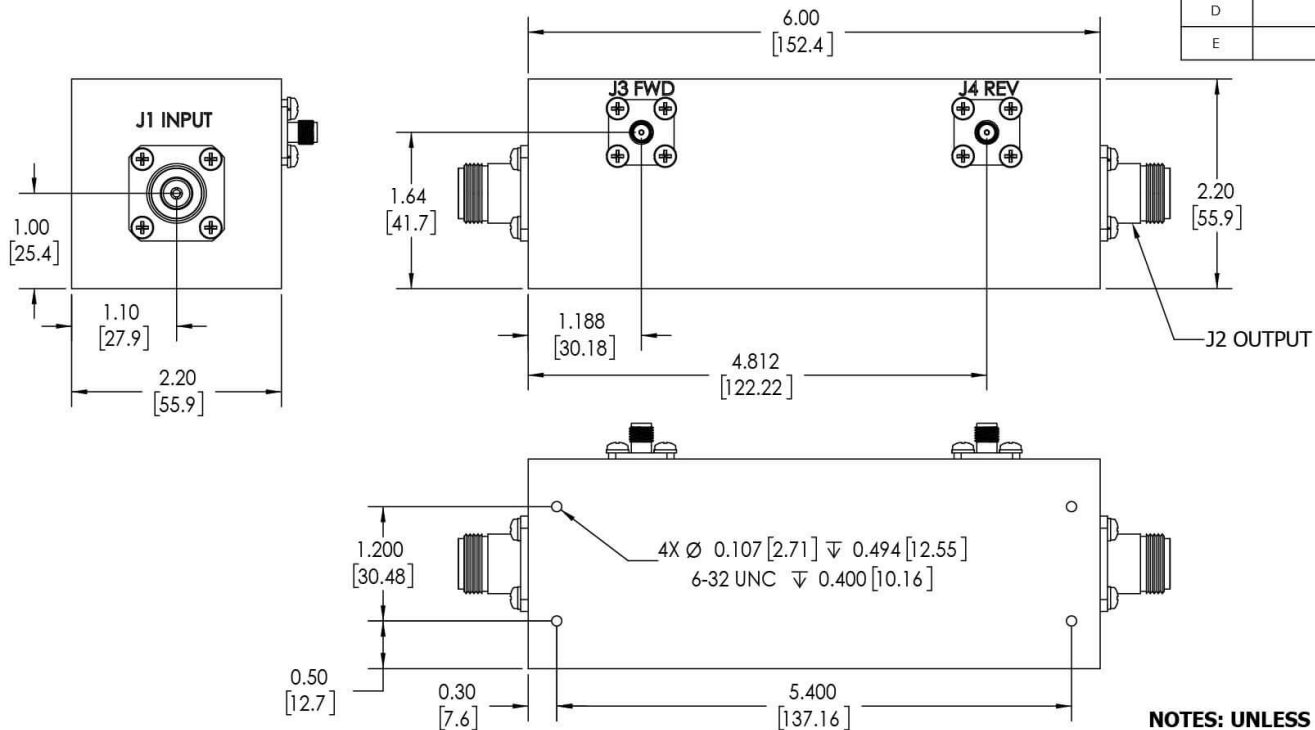


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 3334	6/25/03	RH
B	ECN 4036	8/18/06	MJ
C	ECN 8543	1/31/2014	SC
D	ECN 8618	4/2/2014	SC
E	ECN 9696	5/14/2019	RB



- 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-J2: N FEMALE**
 - J3-J4: SMA FEMALE**

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IAW MIL-STD-100		SD	5/14/2019			
		DIMENSIONING PER ASME Y14.5-2009		CHK	DATE			
		PARENT/CHILD DWG FOR BEST COPY		CS	5/14/2019			
		DIMENSIONS ARE IN INCHES		ENGR	DATE	TITLE		
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		REFR	DATE	OUTLINE		
		TOLERANCES:		QA	DATE		SIZE	CAGE CODE
		ANGLES = 2° 3 PL. ± .005 [13] 2 PL. ± .015 [30]		DATE	DWG NO			REV
		REMOVE ALL BURRS AND SHARP EDGES 8.01 MAX		DATE		10914-500		
		CHAMFERED DIA. 802 PIA		DATE				
		MACHINE TOOL RESTRICTION .001 MAX		DATE				
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		SCALE	1:25		SHEET 1 OF 1	
APPLICATION								

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