
PRODUCT DATA SHEET
C1795

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 - 1000 MHz
 Power: 100 W CW
 Coupling: 40 ± 1.0 dB Max.
 Insertion Loss: 0.5 dB Max.
 Flatness: ± 0.5 dB Max.
 VSWR (ML): 1.30:1 Max.
 Directivity: 20 dB Min.

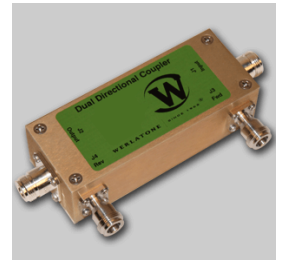
Mechanical Specifications:

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: 5.0 x 2.0 x 1.51"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C1795-10	N Female	N Female	N Female	N Female
C1795-12	N Female	N Female	SMA	SMA
C1795-13	N Female	N Female	BNC	BNC
C1795-102	SMA	SMA	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.

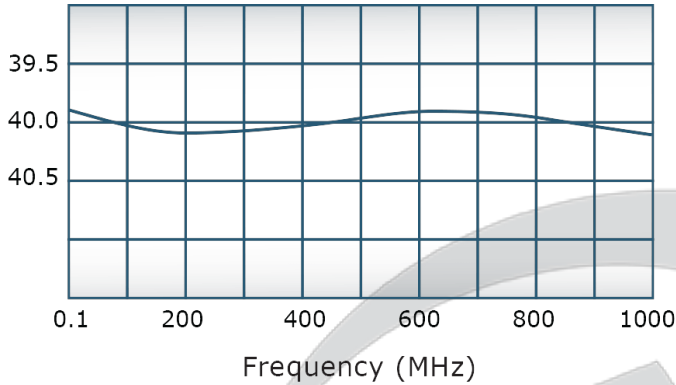


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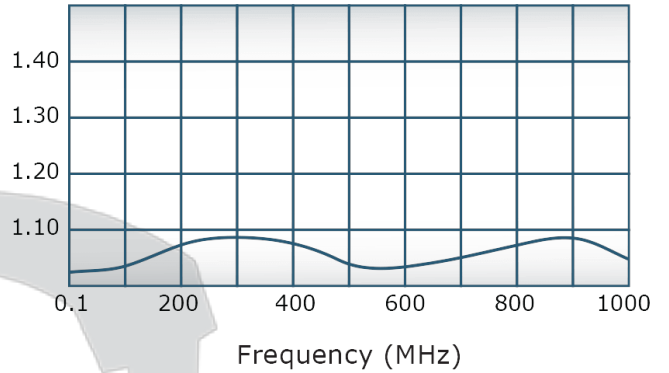
C1795

Performance Data (Specifications subject to change without notice):

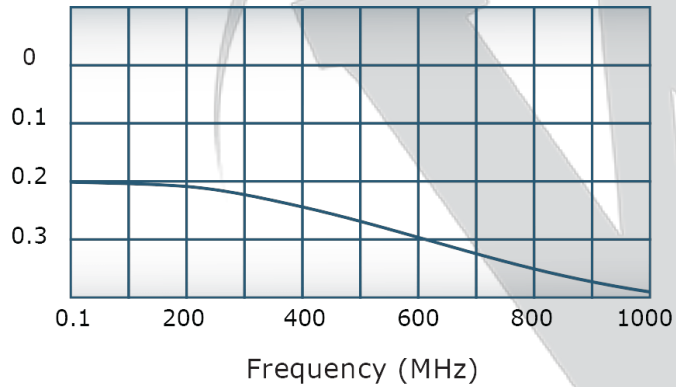
Coupling:



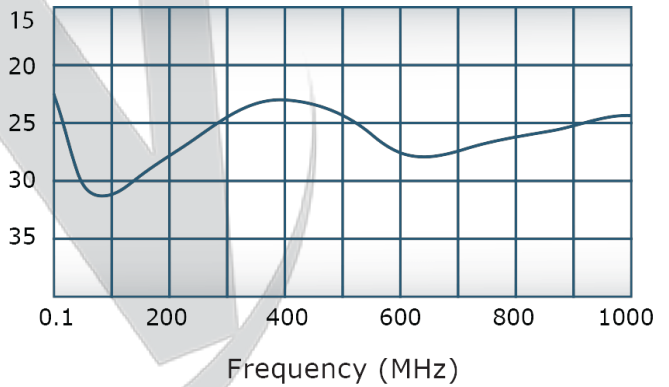
VSWR:



Insertion Loss:



Directivity:

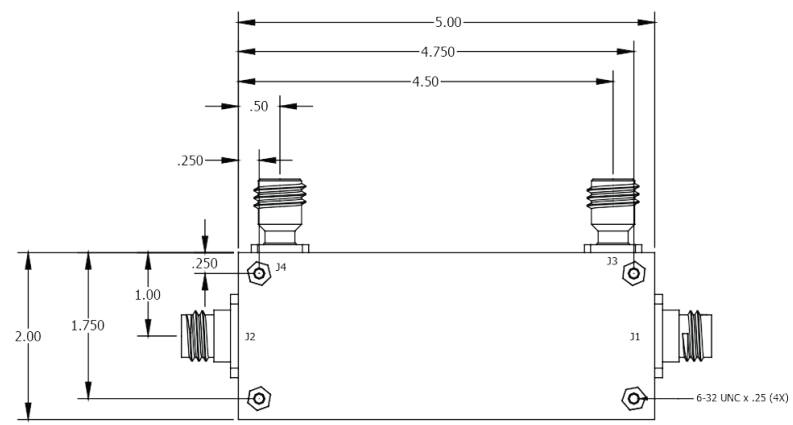
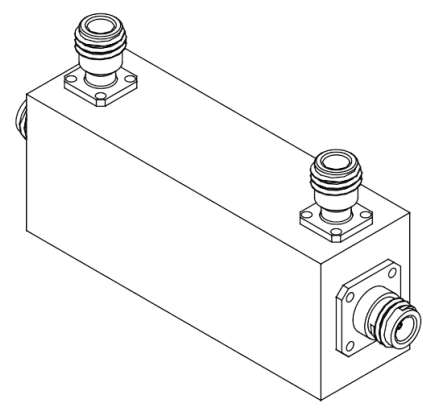
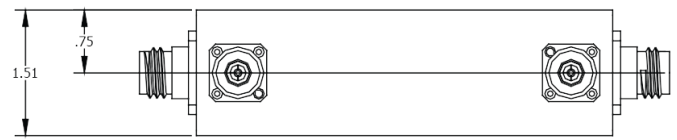


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Werlatone, Inc.

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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
10/6/04	C	ECN 3567	JE		
1/15/07	D	ECN 4139	JE		



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UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965	2095 Route 22 Brewster, NY 10509	
* INTERPRET DRAWING (AW MIL-STD-100) * DIMENSIONING PER ASME Y14.5M-2009 * PARENTHETICAL INFO FOR REF ONLY * DIMENSIONS ARE IN INCHES * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * TOLERANCES: ANGLES = 2° .xxx = .005 .xx = .01 * HOLE TOLERANCES = .004 / .001 * REMOVE ALL BURRS AND SHARP EDGES .01 R MAX * CONCENTRICITY MACHINED DIA: .002 FIM * MACHINE TOOL MISMATCH .003 MAX THIRD ANGLE PROJECTION		AK	11/17/2009		TITLE	
		CHK	DATE	USED ON		
		GP	11/17/2009			
		ENGR	DATE			
		BW	11/17/2009			
		MFR	DATE			
		QA	DATE	SIZE	CAGE CODE	DWG NO
		RLSE	DATE	A	28812	20676-500
				SCALE	1:2	
						REV D
						SHEET 1 OF 1

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