WERLATONE

Model C1795
Connectorized Directional Couplers



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.

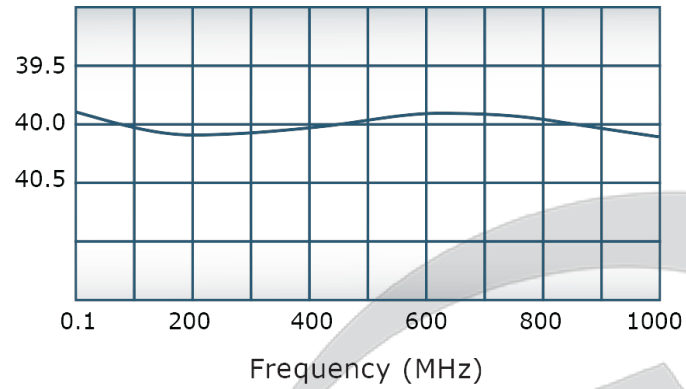
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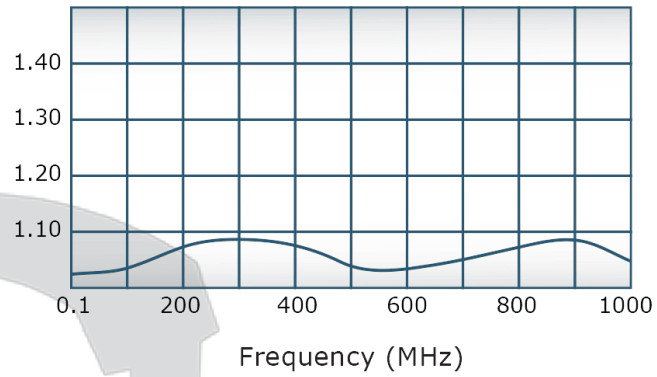


Performance Data (Specifications subject to change without notice):

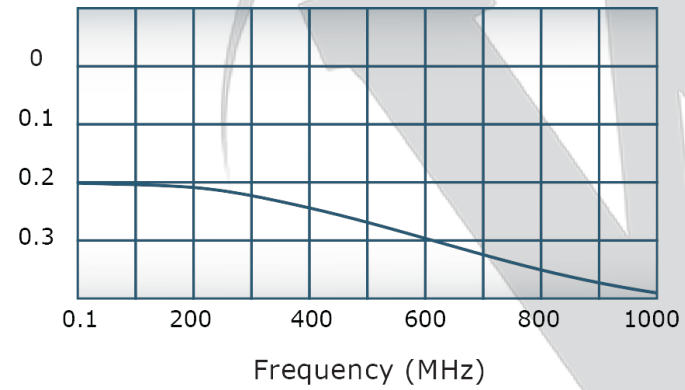
Coupling:



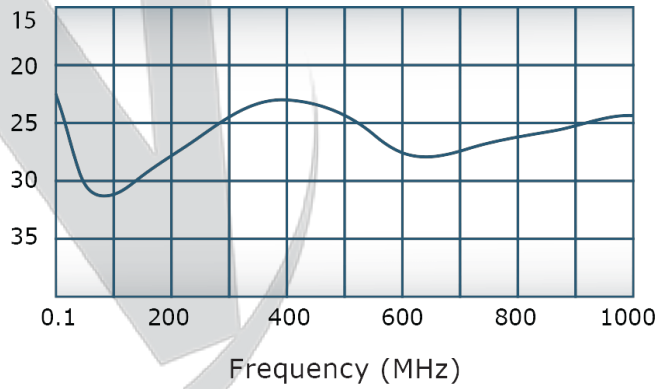
VSWR:



Insertion Loss:



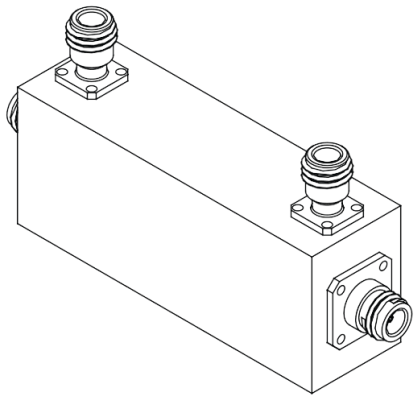
Directivity:

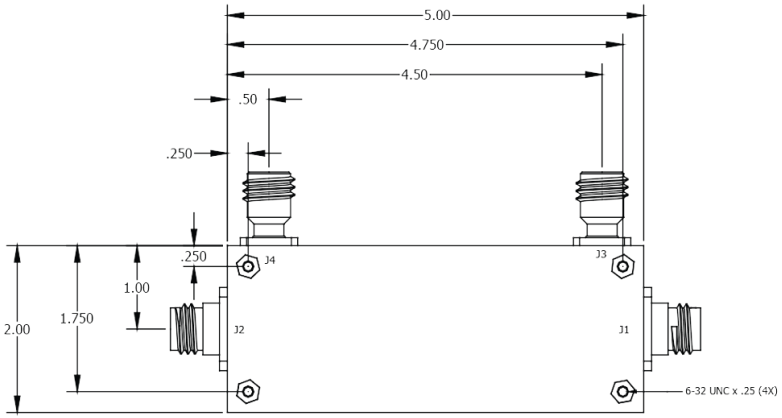


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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
10/6/04	C	ECN 3567	JE		
1/15/07	D	ECN 4139	JE		







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UNLESS OTHERWISE SPECIFIED
° INTERPRET DRAWING IAW 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

DWN	AK	DATE 11/17/2009
CHK	GP	DATE 11/17/2009
ENGR	BW	DATE 11/17/2009
MFGR		DATE
QA		DATE
RLSE		DATE

WERLATONE | SINCE 1965
2095 Route 22
Brewster, NY 10509

TITLE

USED ON

SIZE	CAGE CODE	DWG NO	REV
A	28812	20676-500	D

SCALE 1:2 SHEET 1 OF 1

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