



PRODUCT DATA SHEET

C9790

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: 30 - 520 MHz
Power: 600 W CW
Coupling: 30 ± 1.0 dB Max.
Flatness: ± 0.8 dB Max.
Insertion Loss: 0.8 dB Max.
VSWR (ML): 1.20:1 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 +60°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)
C9790-10	N Female	N Female	N Female	N Female
C9790-12	N Female	N Female	SMA	SMA
C9790-20	7/16 Female	7/16 Female	N Female	N Female
C9790-22	7/16 Female	7/16 Female	SMA	SMA

Must be mounted to a heat spreader capable of maintaining a unit base plate temperature of less than or equal to +60° C.

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 C9790

Connectorized Directional Couplers

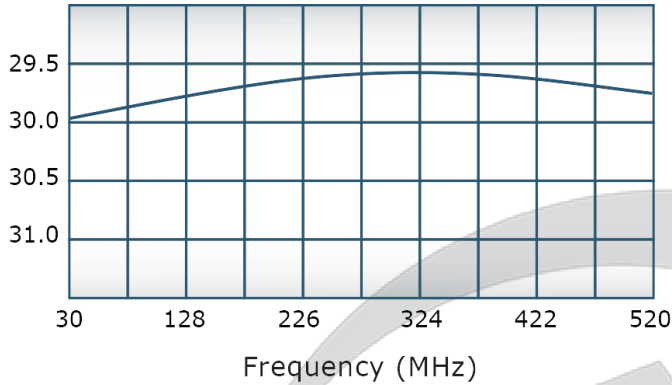


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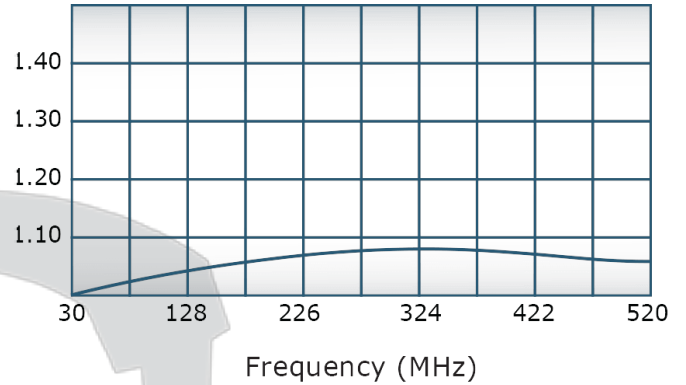
C9790

Performance Data (Specifications subject to change without notice):

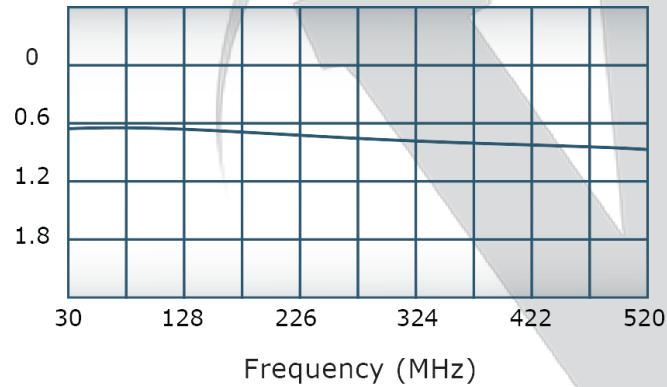
Coupling:



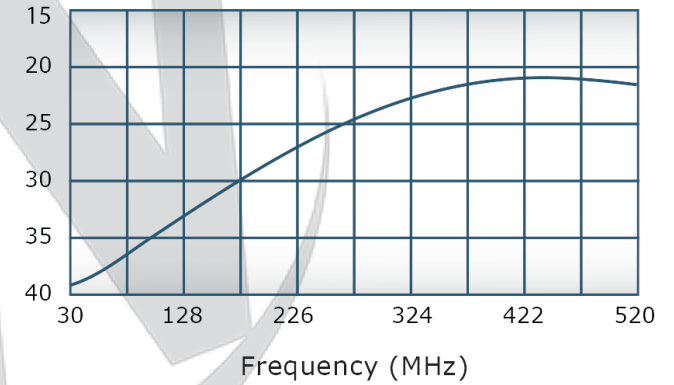
VSWR:



Insertion Loss:



Directivity:

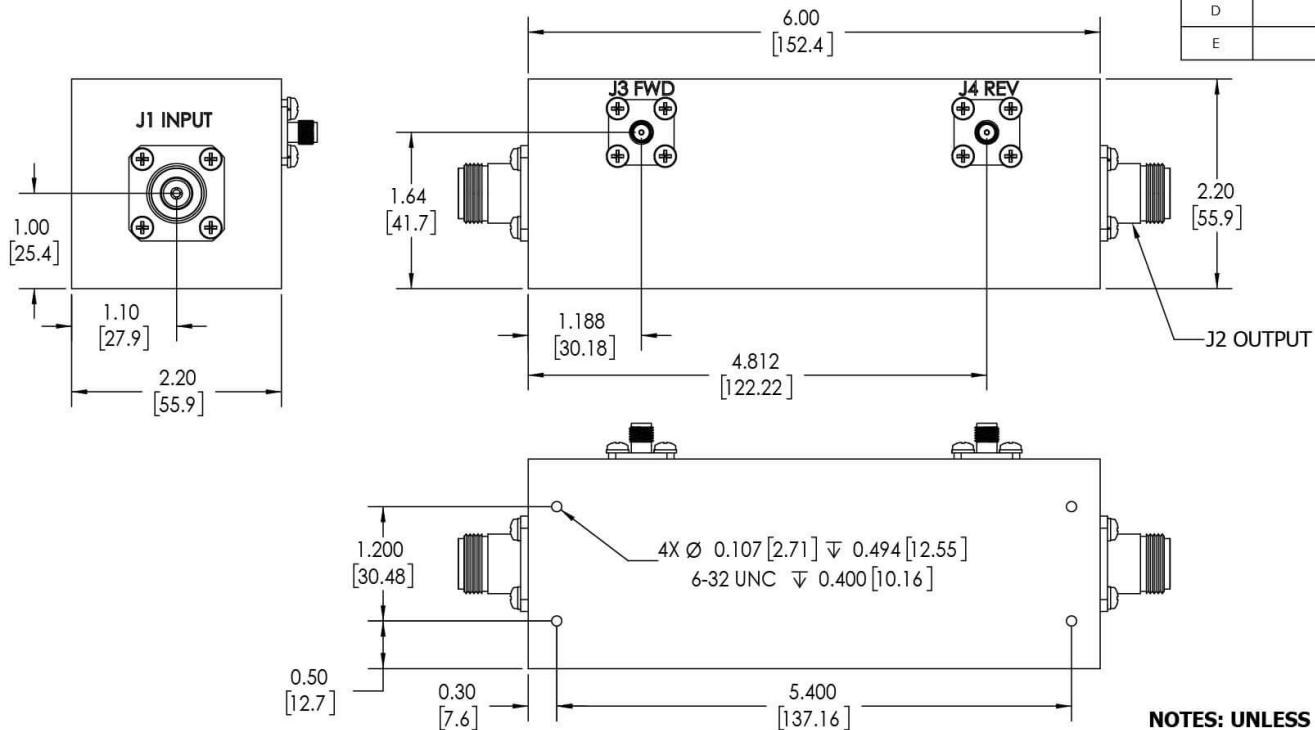


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 3334	6/25/03	RH
B	ECN 4036	8/18/06	MJ
C	ECN 8543	1/31/2014	SC
D	ECN 8618	4/2/2014	SC
E	ECN 9696	5/14/2019	RB



- 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 12565
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		
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES TOLERANCES:		REFR	DATE	OUTLINE SIZE CAGE CODE DWG NO SCALE: 1:25 10914-500	REV E
ANGLES = 2°		QA	DATE		
3 PL. ± .005 [13]		RLSE	DATE		
2 PL. ± .015 [30]					
REMOVE ALL BURRS AND SHARP EDGES 8.01 MAX					
CHAMFERED DIA. .002 FIN					
MACHINE TOOL RESTRICTION .001 MAX					
NEXT ASSY APPLICATION	USED ON THIRD ANGLE PROJECTION				

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