
PRODUCT DATA SHEET
C9495

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
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.40 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.30:1 Max.
Directivity: 20 dB Min.

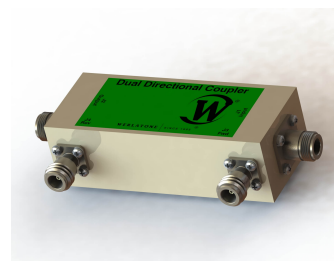
Mechanical Specifications:

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)
C9495-10	N Female	N Female	N Female	N Female
C9495-12	N Female	N Female	SMA	SMA
C9495-13	N Female	N Female	BNC	BNC
C9495-102	N Female	N Male	N Female	N Female
C9495-712	N Male	N Female	SMA	SMA
C9495-714	N Male	N Female	N Female	N Female

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.

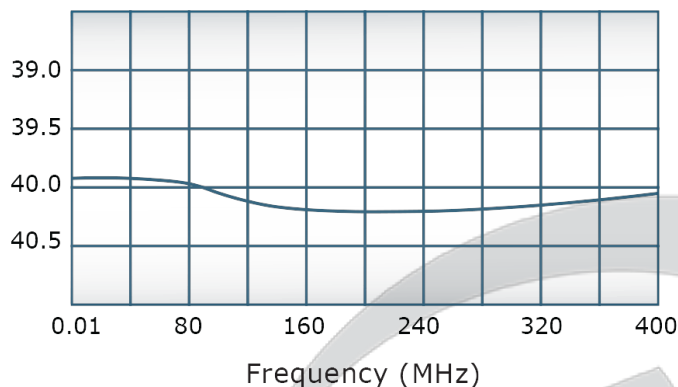


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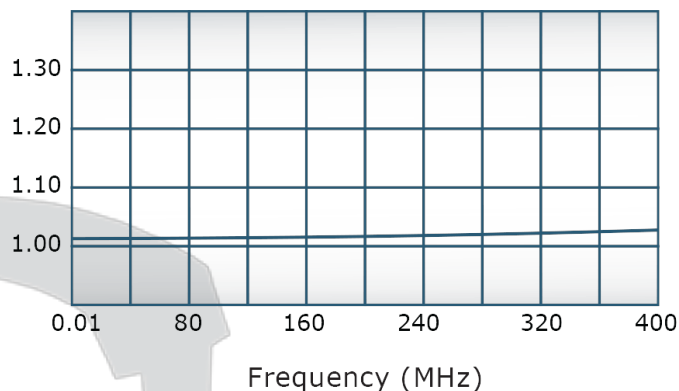
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Performance Data (Specifications subject to change without notice):

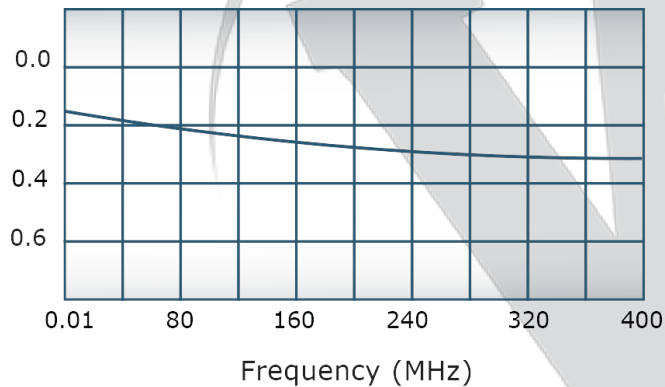
Coupling:



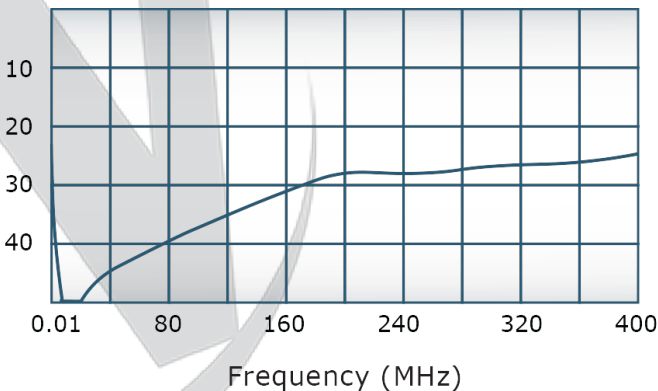
VSWR:



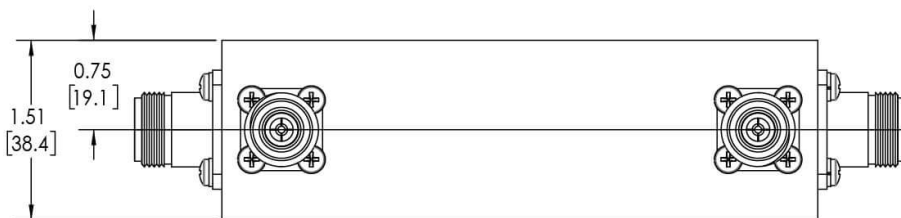
Insertion Loss:



Directivity:



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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-J4: N FEMALE**
 - J1-INPUT; J2-OUTPUT**
 - J3-FWD: J4-REV**

UNLESS OTHERWISE SPECIFIED		DWN	DATE	W WELRATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-1300		SD	5/14/2019		
DIMENSIONING PER ASME Y14.5-2009		CHK	DATE		
PARENTETICAL INFO FOR REF ONLY		CS	5/14/2019		
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES TOLERANCES.		ENGR	DATE		
ANGLES ± 2° 3 PL ± .005 [.13] 2 PL ± .015 [.38]		MFGR	DATE	OUTLINE B CAGE CODE DWG NO SIZE 20676-500	
REMOVE ALL BURRS AND SHARP EDGES R.0.1 MAX		QA	DATE		
CONCENTRICITY MACHINED DIA. .002 FIM		RLSE	DATE		
MACHINE TOOL HORIZONTAL .003 MAX			SCALE		
			1:1		
NEXT ASSY	USED ON				REV E
APPLICATION		THIRD ANGLE PROJECTION 			SHEET 1 OF 1

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