



PRODUCT DATA SHEET

C10511

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: 30 W CW
Coupling: 30 ± 1.0 dB Max.
Insertion Loss: 0.75 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)
C10511-10	N Female	N Female	N Female	N Female
C10511-12	N Female	N Female	SMA	SMA
C10511-13	N Female	N Female	BNC	BNC
C10511-102	SMA	SMA	SMA	SMA

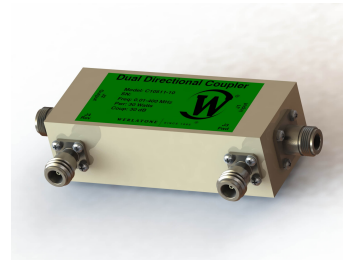
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.



WERLATONE

Model C10511

Connectorized Directional Couplers

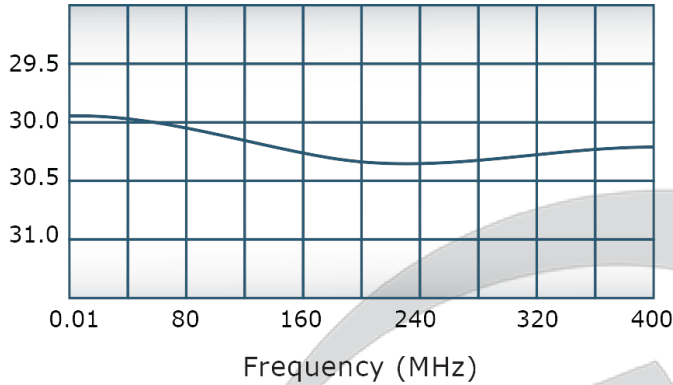


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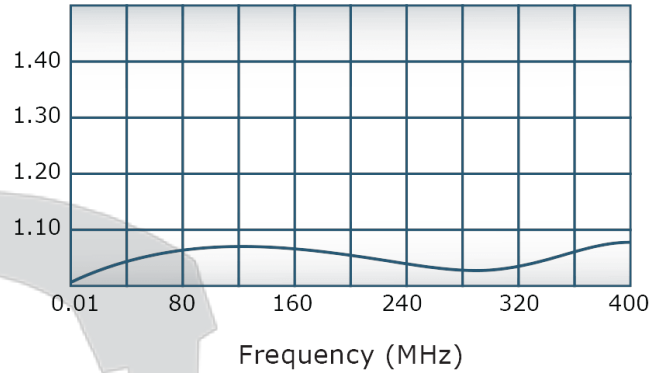
C10511

Performance Data (Specifications subject to change without notice):

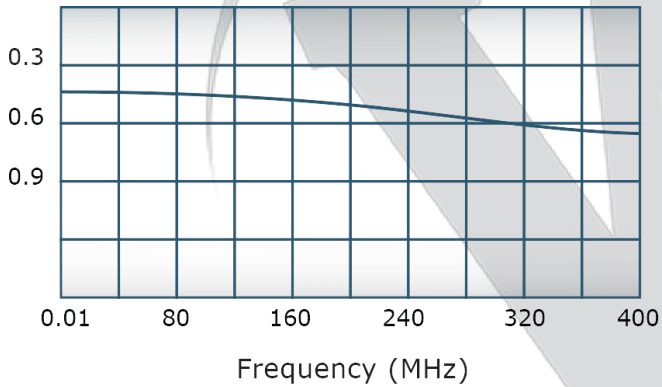
Coupling:



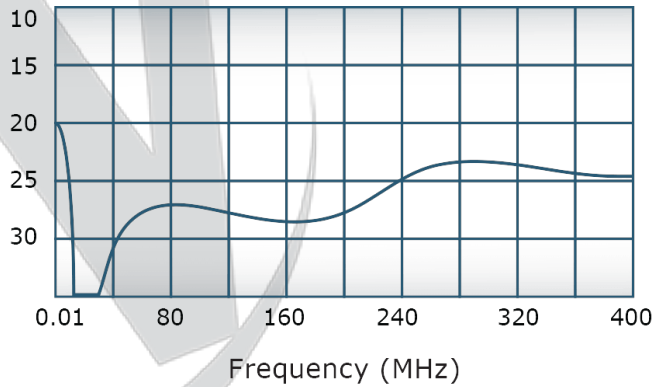
VSWR:



Insertion Loss:



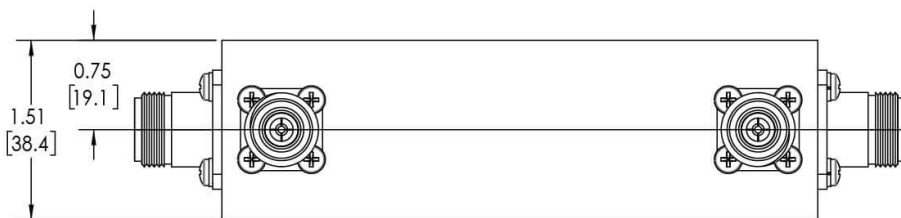
Directivity:



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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	 WELRTALONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IAW MIL-STD-100		SD	5/14/19			
		DIMENSIONS PER ASME Y14.5-2009		CHK	DATE			
		PARENTICAL INFO FOR REF ONLY		CS	5/14/19			
		DIMENSIONS ARE IN INCHES		ENGR	DATE			
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES TOLERANCES		MGFR	DATE			
		ANGLES ± 2° 3 PL ± .005 [13] 2 PL ± .015 [30]		QA	DATE	SIZE	CAGE CODE	DWG NO
		REMOVE ALL BURS AND SHARP EDGES R.1 MAX				20676-500		
		CONCENTRICITY MACHINED DIA .002 FIM		RLSE	DATE	SCALE	1:1	
		MACHINE TOOL MOUNTING .003 MAX				SHEET 1 OF 1		
NEXT ASSY		USED ON						
APPLICATION				THIRD ANGLE PROJECTION 				

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