



PRODUCT DATA SHEET

C9771

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: 10 - 1000 MHz
Power: 170 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.35 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.10:1 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: 3.0 x 2.0 x 1.0"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C9771-10	N Female	N Female	N Female	N Female
C9771-12	N Female	N Female	SMA	SMA
C9771-714	N Male	N Female	N Female	N Female

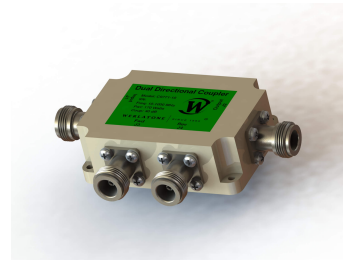
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C9771

Connectorized Directional Couplers

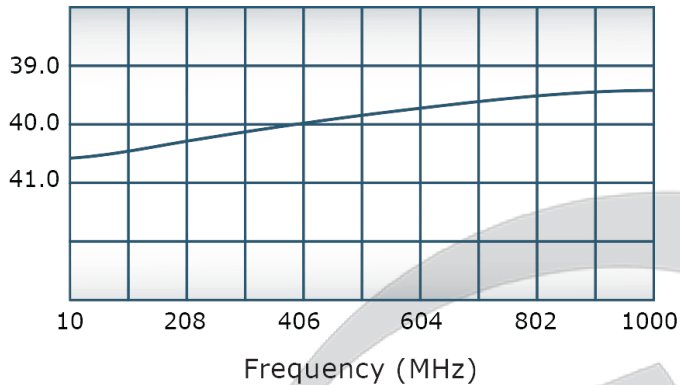


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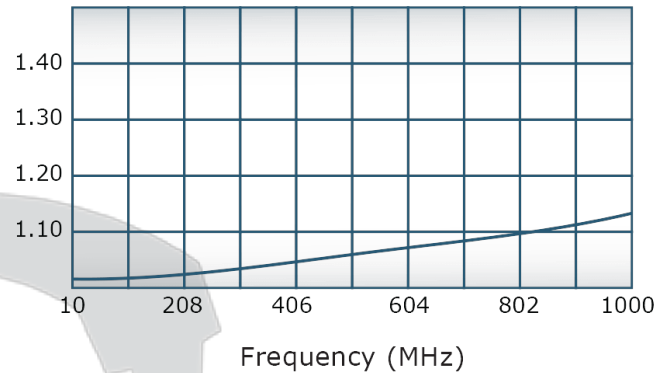
C9771

Performance Data (Specifications subject to change without notice):

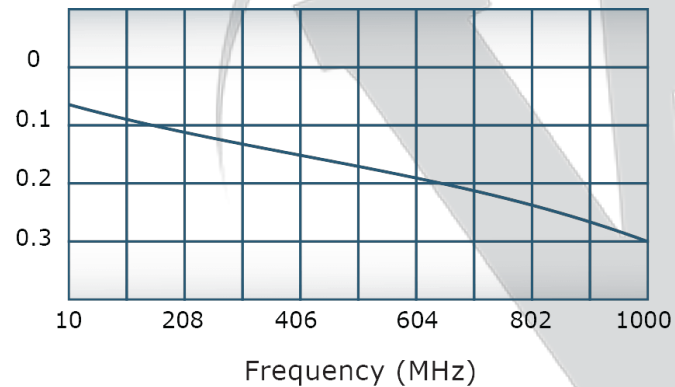
Coupling:



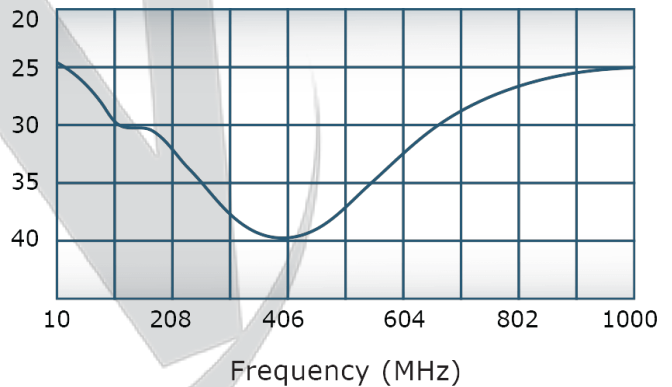
VSWR:



Insertion Loss:



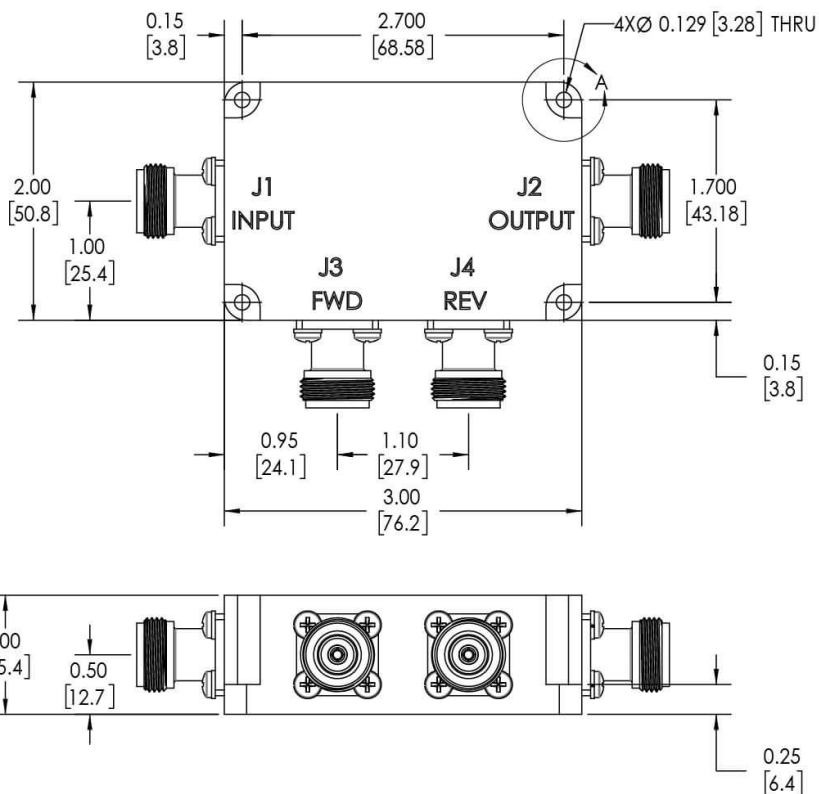
Directivity:



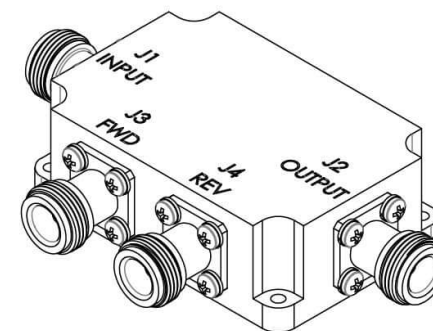
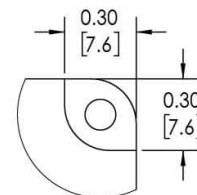
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	9/6/2013	GP
A	ECN 9696	5/15/2019	RB



- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
 - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
 - CONNECTORS:**
J1-J4: N FEMALE
 - ALL RADII .188**

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE [®] SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IAW MIL-STD-100		SD	5/14/2019			
		DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE			
		PARENTHESES INFO FOR REF ONLY		CS	5/14/2019		TITLE	
		DIMENSIONS ARE IN INCHES		ENGR	DATE	OUTLINE		
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE		SIZE	CAGE CODE
		TOLERANCES:		QA	DATE		DWG NO.	REV
		ANGLES ± 2°		RLSE	DATE		21084-500	A
		3 PL ± .005 [13]				SCALE	1:1	
		2 PL ± .015 [38]						SHEET 1 OF 1
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX						
		CONCENTRICITY MACHINED DIA. .002 FIM						
		MACHINE TOOL MISMATCH .003 MAX						
NEXT ASSY		USED ON						
APPLICATION		THIRD ANGLE PROJECTION						

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