
PRODUCT DATA SHEET
C9770

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: 20 - 1000 MHz
Power: 50 W CW
Coupling: 30 ± 1.0 dB Max.
Insertion Loss: 0.7 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.10:1 Max.
Directivity: 20 dB Min.

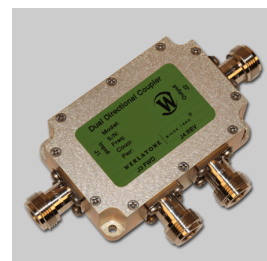
Mechanical Specifications:

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)
C9770-10	N Female	N Female	N Female	N Female
C9770-12	N Female	N Female	SMA	SMA
C9770-102	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.

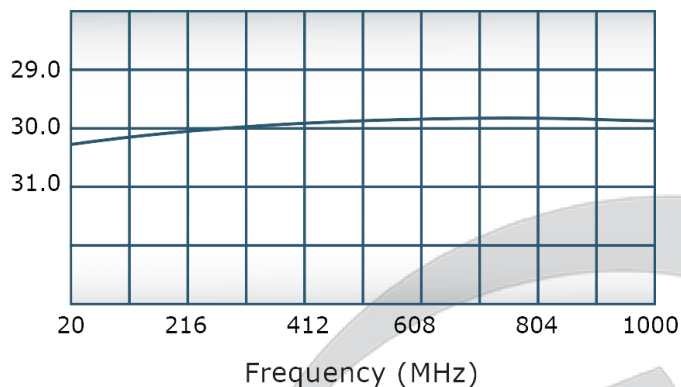


PRODUCT DATA SHEET

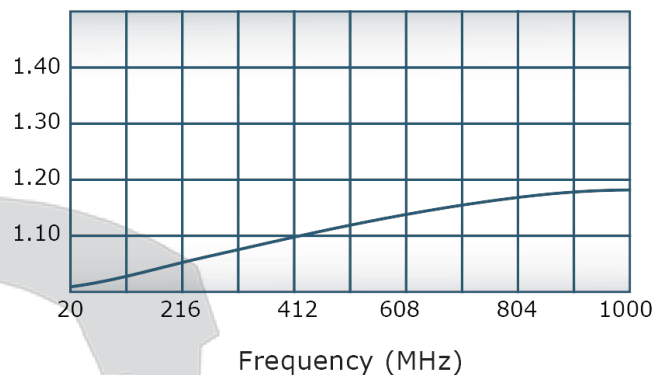
C9770

Performance Data (Specifications subject to change without notice):

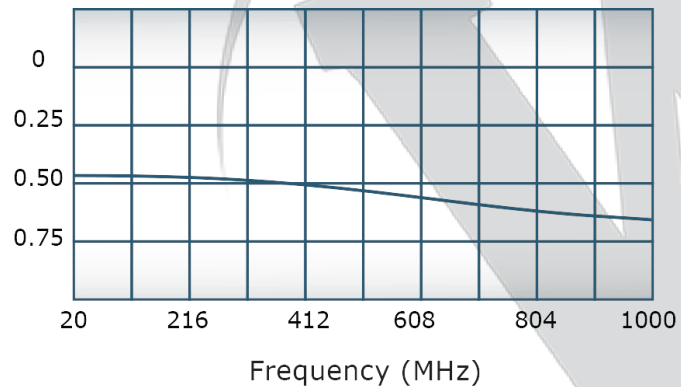
Coupling:



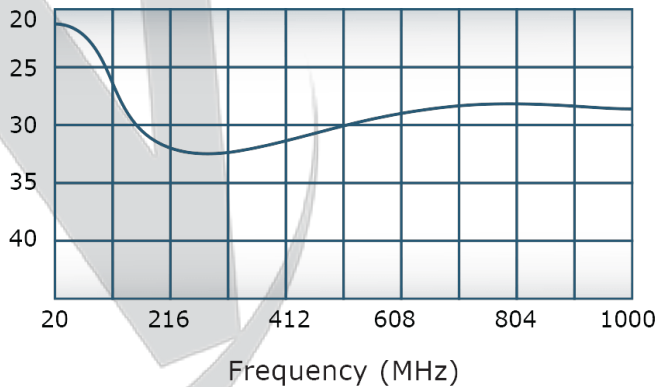
VSWR:



Insertion Loss:



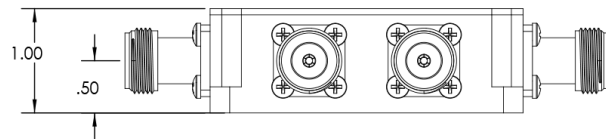
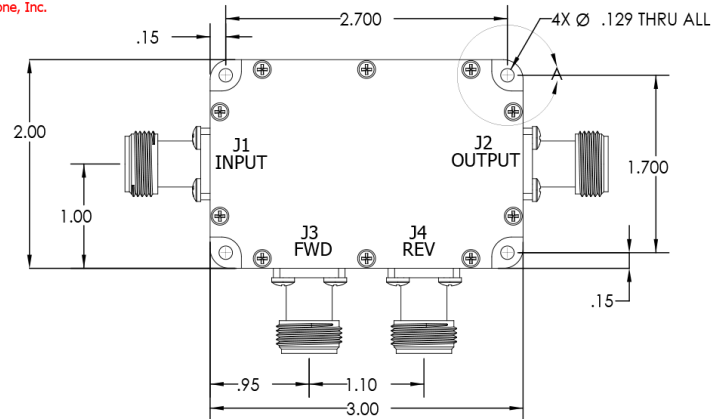
Directivity:



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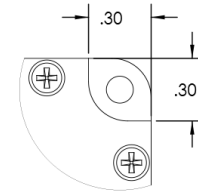
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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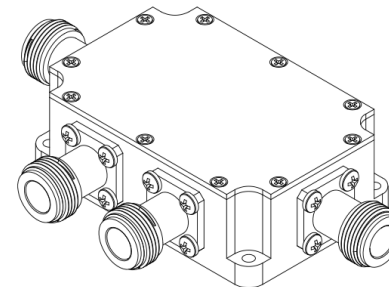



REVISIONS

REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	9/6/2013	GP



DETAIL A
SCALE 2:1



		UNLESS OTHERWISE SPECIFIED		DWG	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
		INTERPRET DRAWING PER MIL-STD-100		CMP	9/6/2013		
		DIMENSIONS PER ASME Y14.5M-2009		DATE	9/6/2013		
		DIMENSIONS ARE IN INCHES		ENR	9/6/2013		
		DIMENSIONS ARE IN INCHES		DNR	9/6/2013		
		DIMENSIONS UNLESS OTHERWISE SPECIFIED		DATE	9/6/2013		
		TOLERANCES:		INCR	DATE		
		ANGLES ± 3°		DATE	9/6/2013		
		3 PL ± .005		DATE	9/6/2013		
		2 PL ± .015		DATE	9/6/2013		
		REMOVE ALL BURRS AND SHARP EDGES R/L MAX		DATE	9/6/2013		
		CONCENTRICITY MAX .004		DATE	9/6/2013		
		MACHINE TOOL MESHATCH .003 MAX		DATE	9/6/2013		
				DATE	9/6/2013		
				DATE	9/6/2013		
NEXT ASSY		USED ON		THIRD ANGLE PROJECTION			
APPLICATION				1:1			
				SCALE			
				28812 21083-500			
				SHEET 1 OF 1			

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