
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"

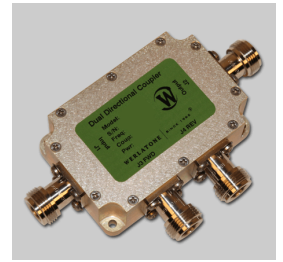
Connector Configurations:

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

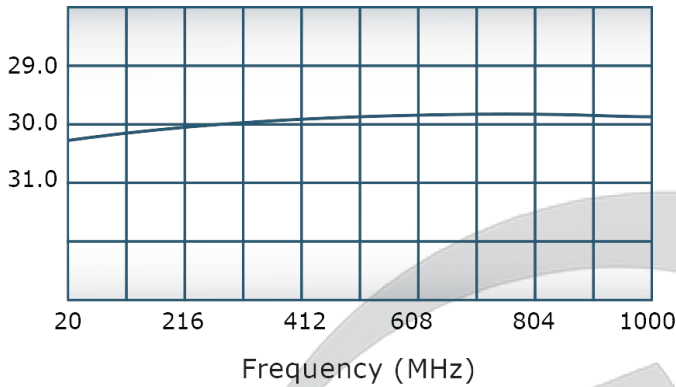
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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

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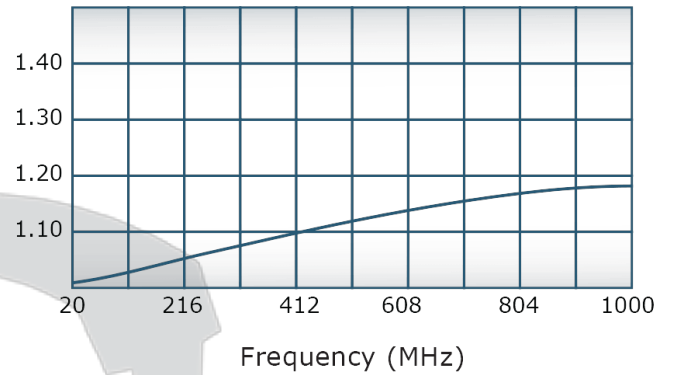
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com


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Performance Data (Specifications subject to change without notice):

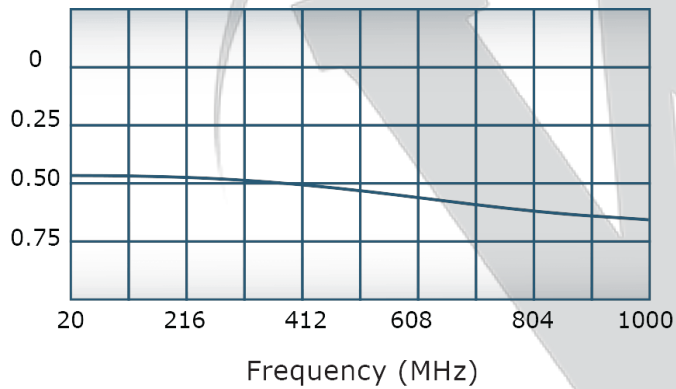
Coupling:



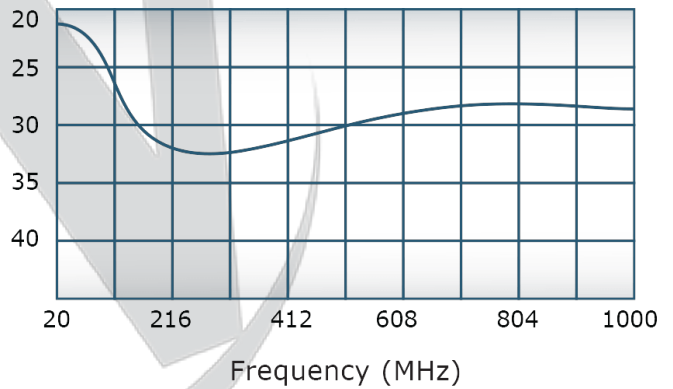
VSWR:



Insertion Loss:



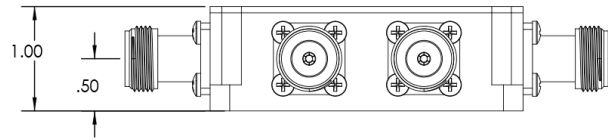
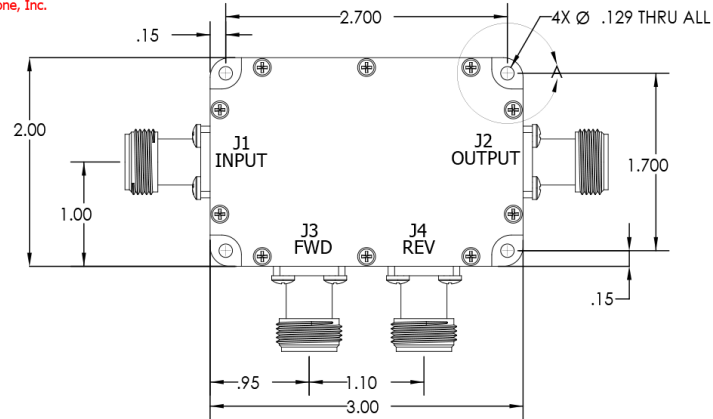
Directivity:



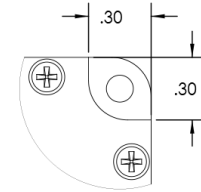
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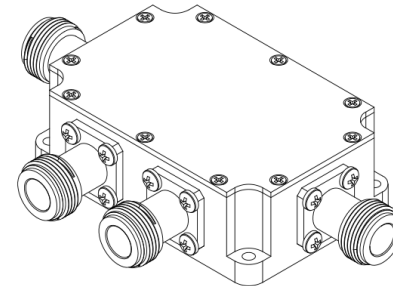
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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	9/6 /2013	GP



DETAIL A
SCALE 2 : 1



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		GP	9/6/2013	
		DIMENSIONS ARE IN INCHES		CHK	DATE	TITLE
		DIMENSIONS ARE IN INCHES		NH	9/6/2013	
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		ENGR	DATE	SIZE
		TOLERANCES:				
		ANGLES = 3°		MPGR	DATE	CAGE CODE [DWG NO]
		3 RL ± .005				
		2 FL ± .015		QA	DATE	B 28812 21083-500
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				
		CONCENTRICITY FINISHED DIA: .002 FPM		RELE	DATE	SCALE
		MACHINE TOOL MISMATCH: .003 MAX				1:1
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION				REV
	APPLICATION					-

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