
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.

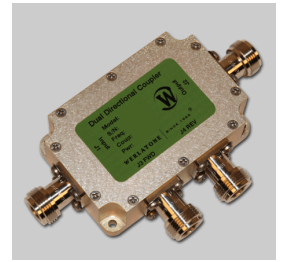
Mechanical Specifications:

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.

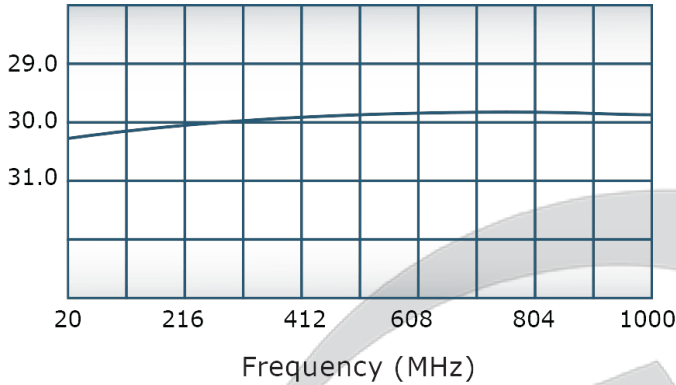


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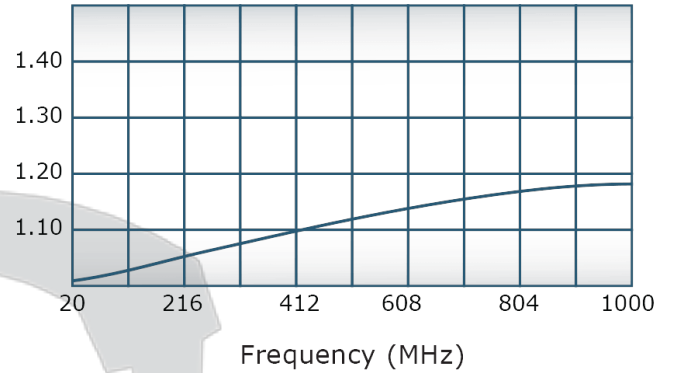
C9770

Performance Data (Specifications subject to change without notice):

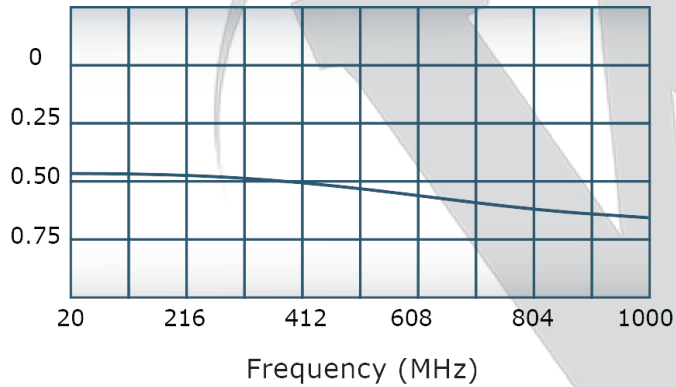
Coupling:



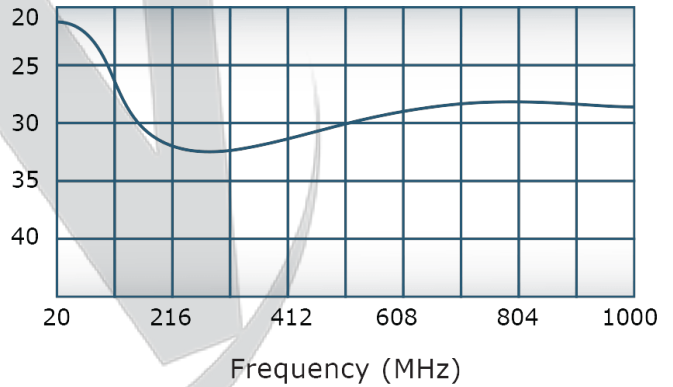
VSWR:



Insertion Loss:



Directivity:

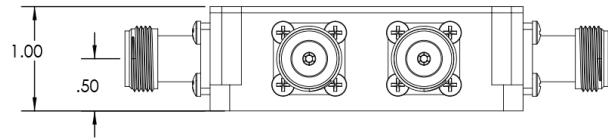
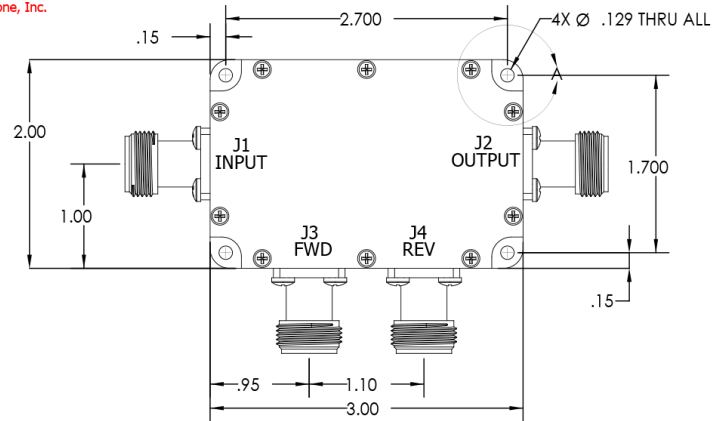


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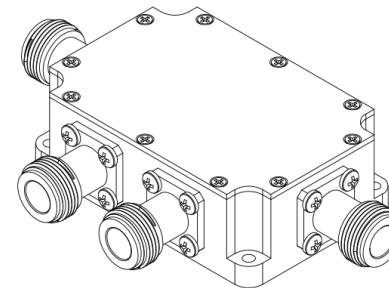
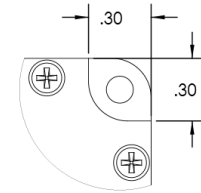
Werlatone, Inc.


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



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:		MPGR	DATE	
ANGLES = 3°		QA	DATE	CAGE CODE [DWG NO]
3 RL ± .005		RELE	DATE	
2 RL ± .015				SCALE
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				
CONCENTRICITY FACHED 0.04 - 0.02 FPM				SHEET 1 OF 1
MACHINE TOOL MISMATCH .003 MAX				
NEXT ASSY	USED ON	REV		
APPLICATION				
THIRD ANGLE PROJECTION				

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