
**PRODUCT DATA SHEET**
**C9766**

**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:            30 - 512 MHz  
 Power:                175 W CW  
 Coupling:            30 ± 1.0 dB Max.  
 Insertion Loss:      0.7 dB Max.  
 Flatness:             ± 0.5 dB Max.  
 VSWR (ML):         1.30:1 Max.  
 Directivity:          20 dB Min.

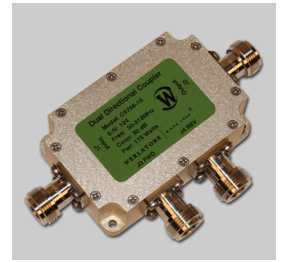
**Mechanical Specifications:**

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:                    3.0 x 2.0 x 1.0"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C9766-10	N Female	N Female	N Female	N Female
C9766-12	N Female	N Female	SMA	SMA
C9766-102	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.

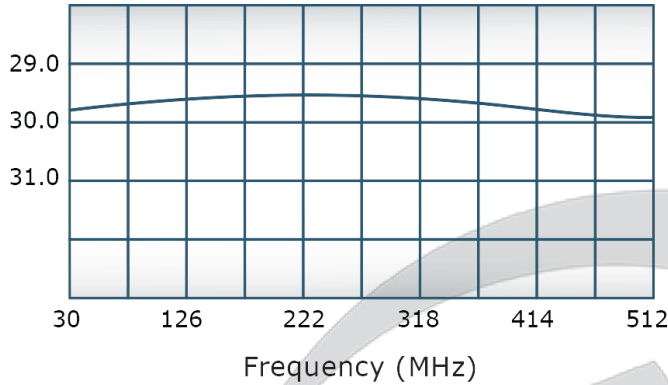


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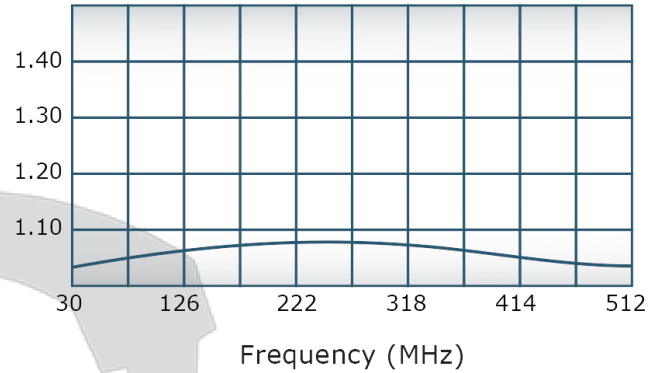
C9766

**Performance Data (Specifications subject to change without notice):**

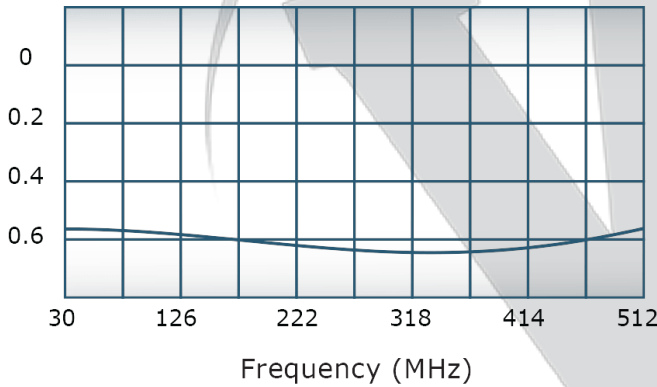
Coupling:



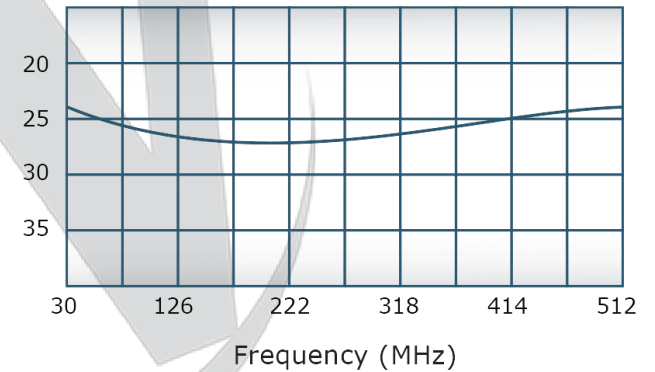
VSWR:



Insertion Loss:



Directivity:



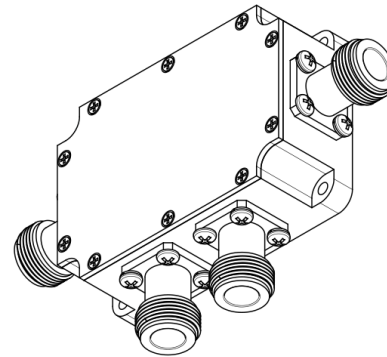
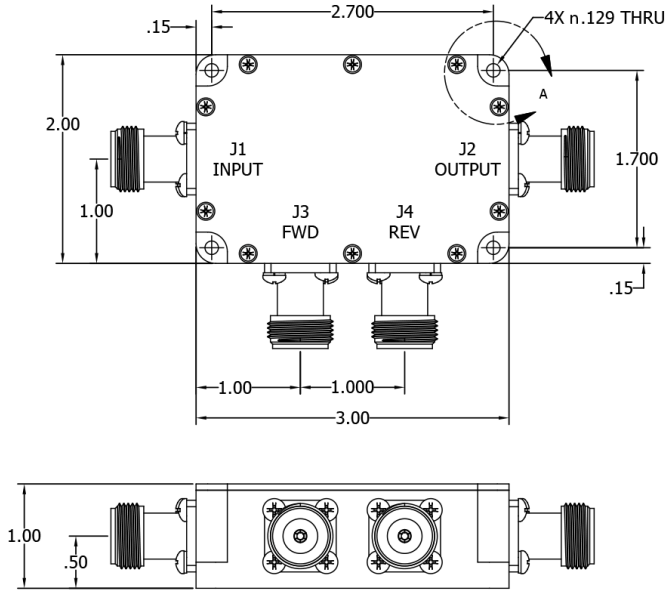
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Werlatone, Inc.

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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
	INITIAL RELEASE	8/31/2011	BW



UNLESS OTHERWISE SPECIFIED		DWGN	DATE	 <b>WERLATONE</b> SINCE 1965		17 Jon Barrett Rd Patterson, NY 12562
• INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5M-2009	• DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE	TITLE		REV
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING	• DIMENSIONS ARE IN INCHES	CS	DATE	B 2881221012-500		-
• TOLERANCES: ANGLES ±3°	3 PL. ±.005	MPGR	DATE	SIZE	CAGE CODE	DWG NO
2 PL. ±.015		QA	DATE	B		
		RLSE	DATE	SCALE		
				1:1		
THIRD ANGLE PROJECTION						SHEET 1 OF 1

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