
**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:  $30 \pm 1.0$  dB Max.  
Insertion Loss: 0.7 dB Max.  
Flatness:  $\pm 0.5$  dB Max.  
VSWR (ML): 1.30:1 Max.  
Directivity: 20 dB Min.

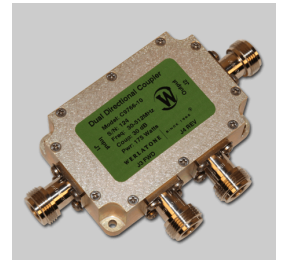
**Mechanical Specifications:**

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.

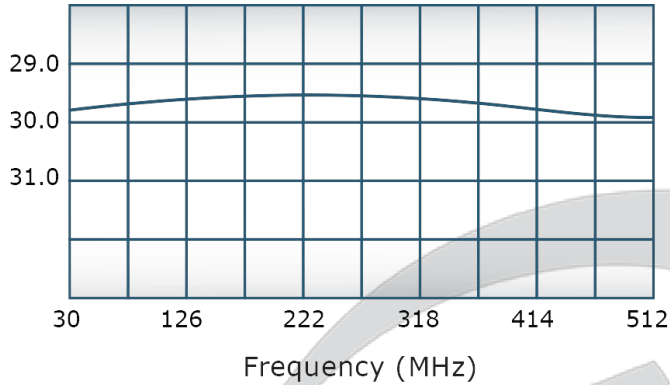


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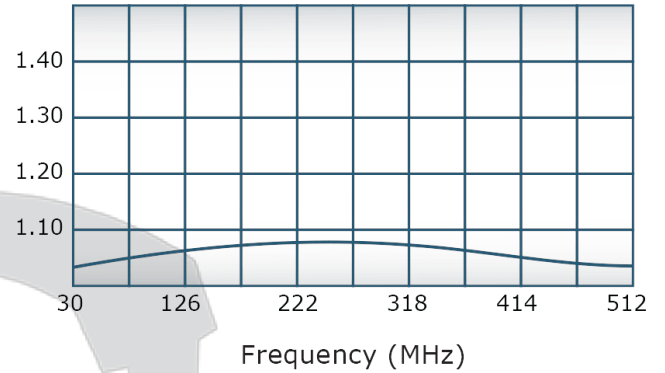
C9766

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

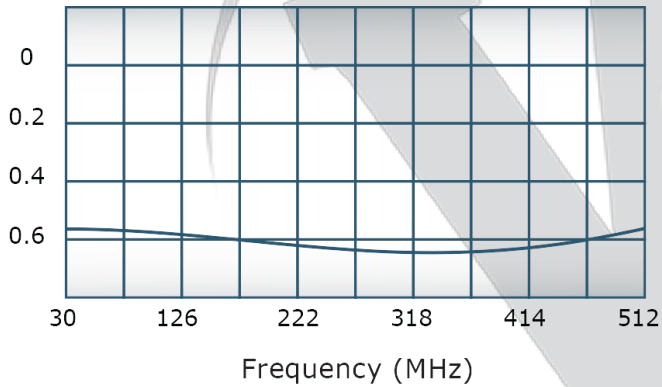
Coupling:



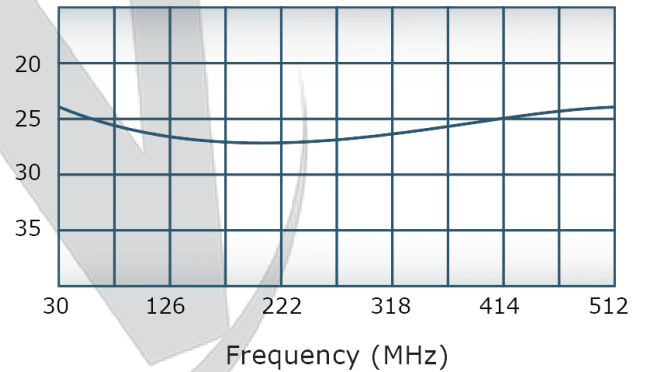
VSWR:



Insertion Loss:



Directivity:

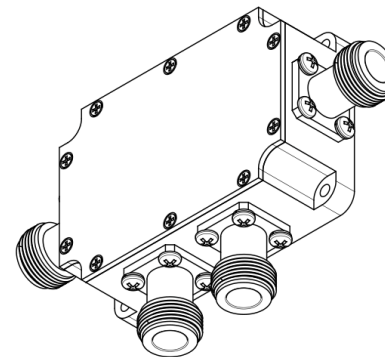
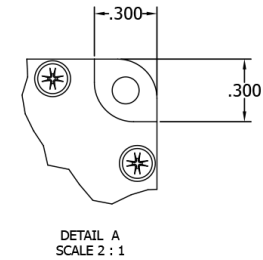
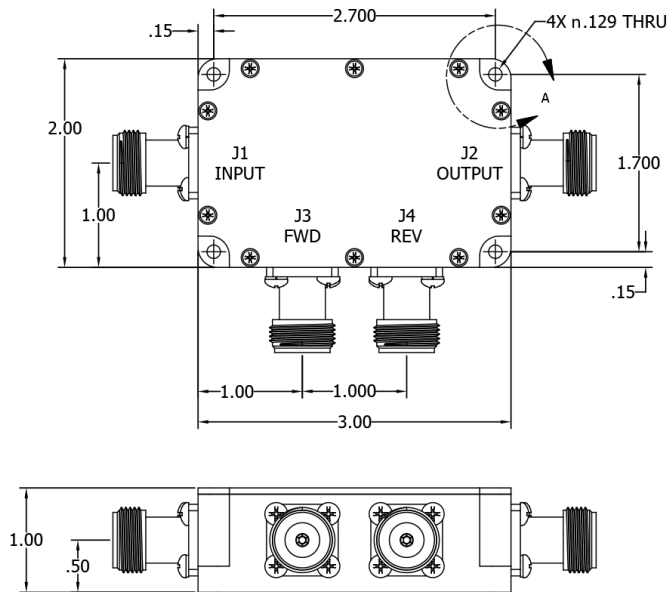





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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
1	INITIAL RELEASE	8/31/2011	BW



UNLESS OTHERWISE SPECIFIED				DWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563		
• INTERPRET DRAWING IN ACCORDANCE WITH ISO-100				CP	2/25/13	 WERLATONE SINCE 1965				
• DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED				CHK	DATE					
• DIMENSIONS ARE IN INCHES				CS	2/25/13	TITLE				
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING				ENGR	DATE	SIZE CASE CODE DWG NO				
• TOLERANCES: ANGLES ±2°				MPGR	DATE					
3 PL ± .005				QA	DATE	B 2881221012-500				
2 PL ± .015				RLSE	DATE					
THIRD ANGLE PROJECTION 				SCALE 1:1						SHEET 1 OF 1

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