
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.

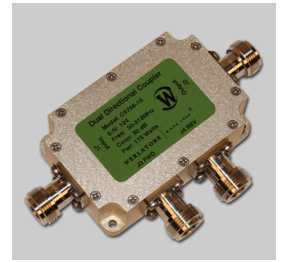
Mechanical Specifications:

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.

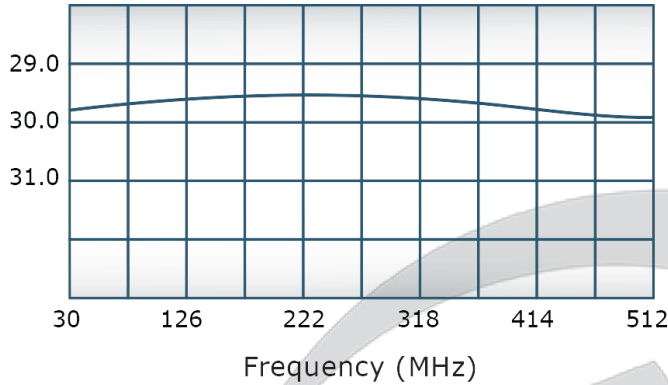


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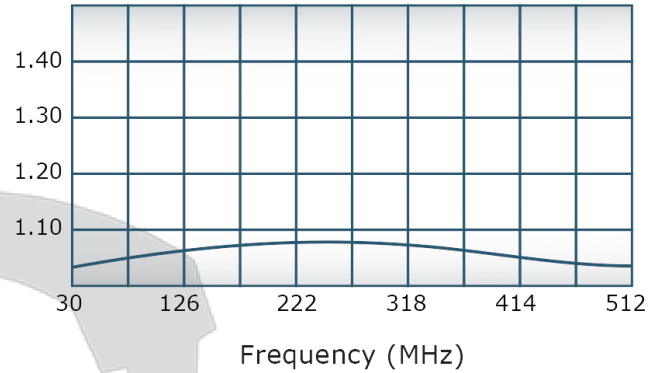
C9766

Performance Data (Specifications subject to change without notice):

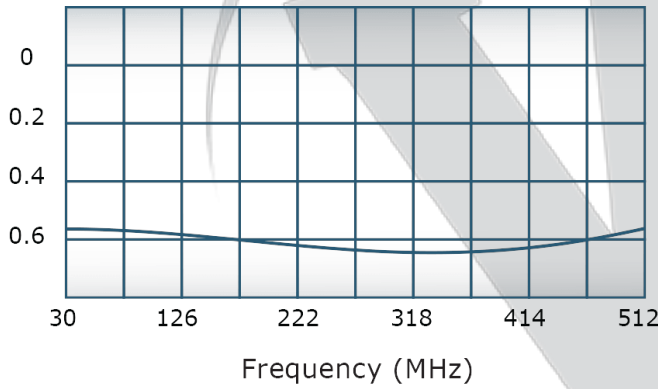
Coupling:



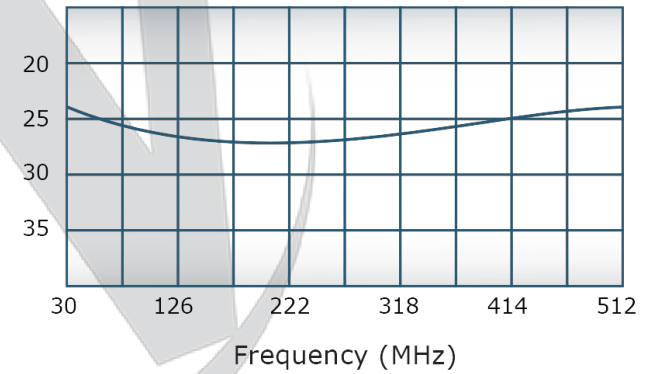
VSWR:



Insertion Loss:



Directivity:

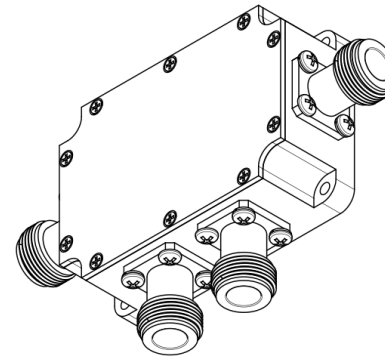
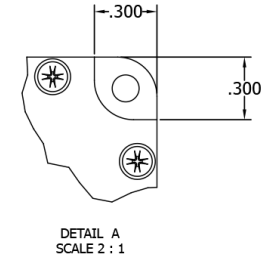
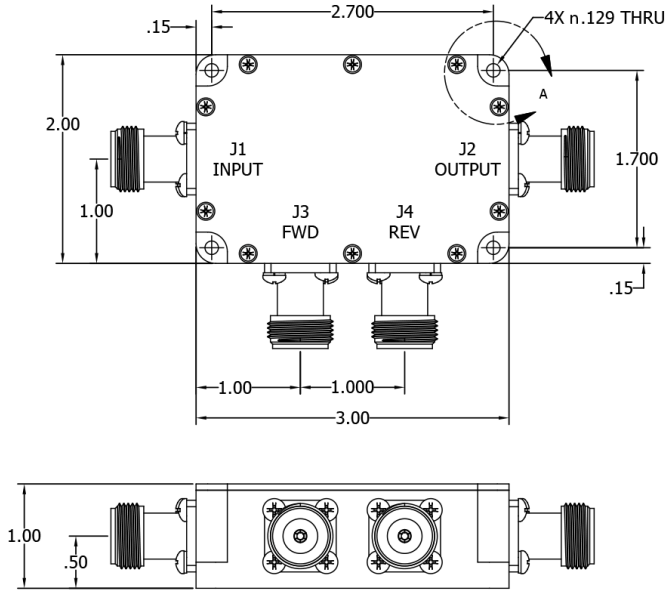


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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
	INITIAL RELEASE	8/31/2011	BW



UNLESS OTHERWISE SPECIFIED		DWGN	DATE	W		WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12562
• INTERPRET DRAWING LAW MIL-STD-100	• DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE	2/25/13			
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING	• DIMENSIONS ARE IN INCHES	CS	DATE	2/25/13	TITLE		
• TOLERANCES: ANGLES ±2°	3 PL. ±.005	ENGR	DATE				
2 PL. ±.015		MPGR	DATE		SIZE	CAGE CODE	DWG NO
		QA	DATE		B	28812	21012-500
THIRD ANGLE PROJECTION		RLSE	DATE		SCALE	1:1	
							REV
							-
							SHEET 1 OF 1

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