

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.

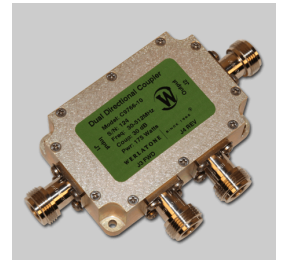
Mechanical Specifications:

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.

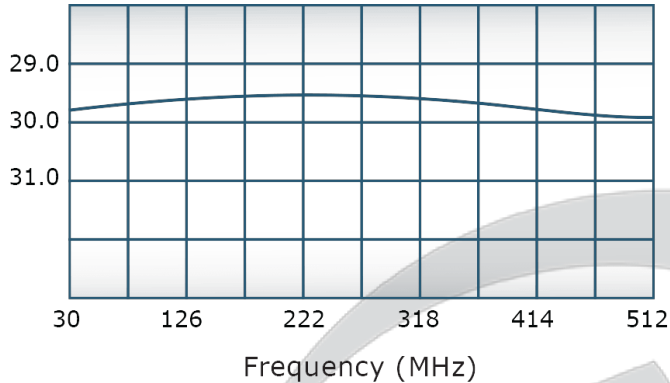


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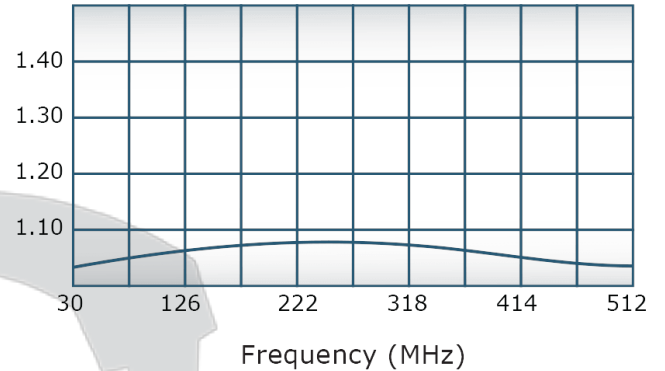
C9766

Performance Data (Specifications subject to change without notice):

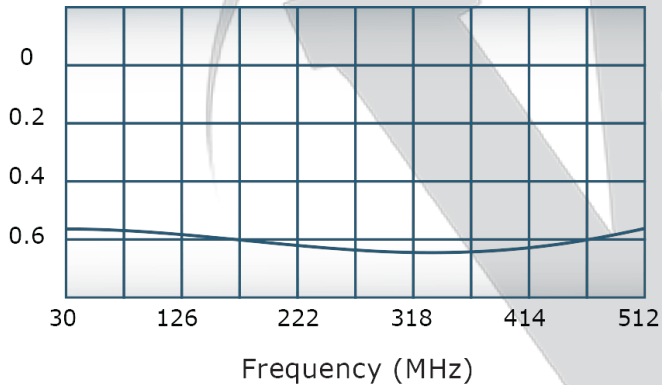
Coupling:



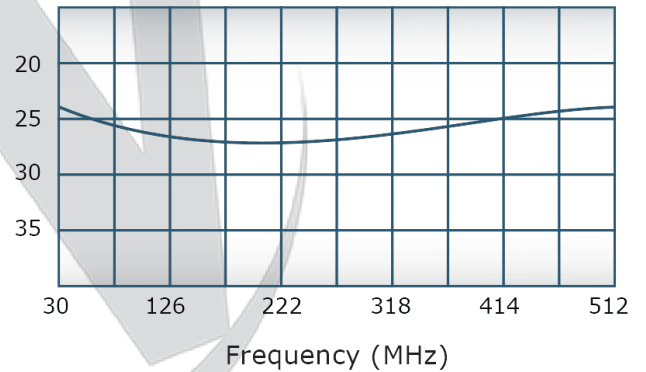
VSWR:



Insertion Loss:

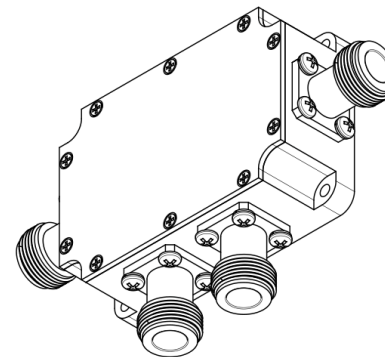
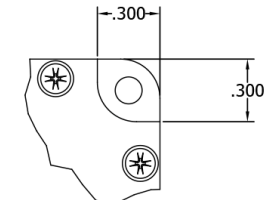
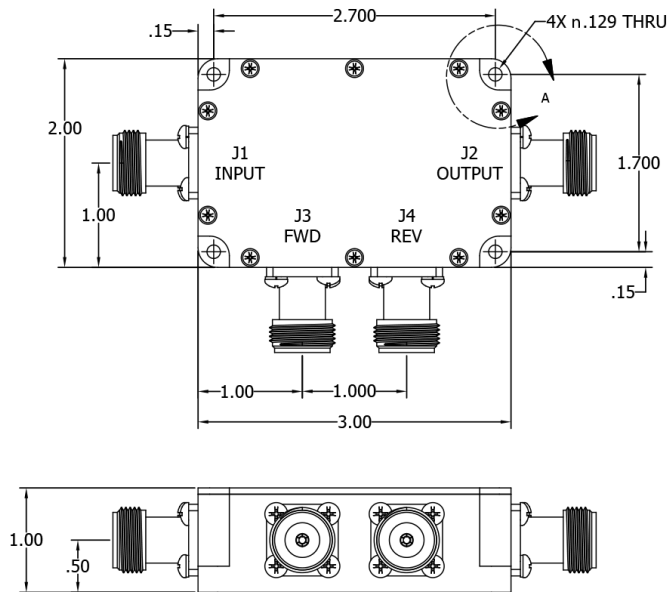


Directivity:



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



UNLESS OTHERWISE SPECIFIED				DRAWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
• INTERPRET DRAWING (AW) MEET-100				CP	2/25/13	 WERLATONE SINCE 1965			
• DIMENSIONS PER ASME Y14.5M-2009				CHK	DATE				
• DIMENSIONS ARE IN INCHES				CS	2/25/13	TITLE			
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING				ENGR	DATE				
• TOLERANCES: ANGLES ±2°				MPGR	DATE				
3 PL ± .005				QA	DATE	SIZE CASE CODE DWG NO		REV	
2 PL ± .015				RLSE	DATE				
THIRD ANGLE PROJECTION 				SCALE		1:1		SHEET 1 OF 1	

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