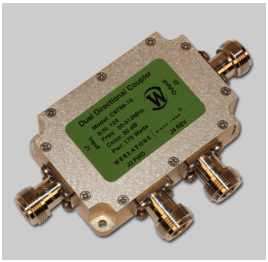
WERLATONE

Model C9766
Connectorized Directional Couplers



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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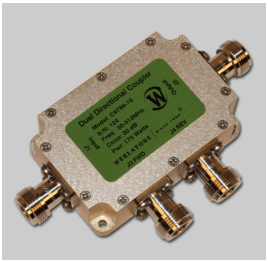
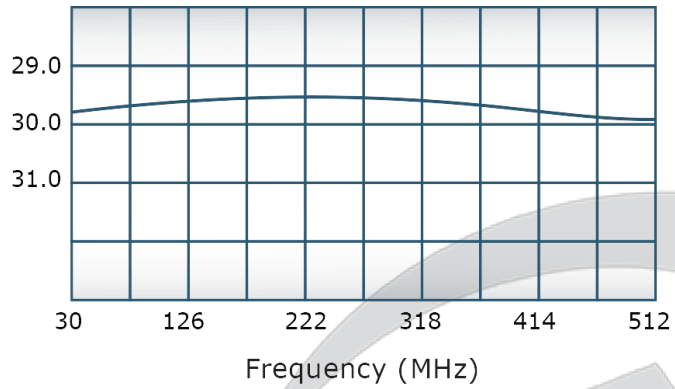
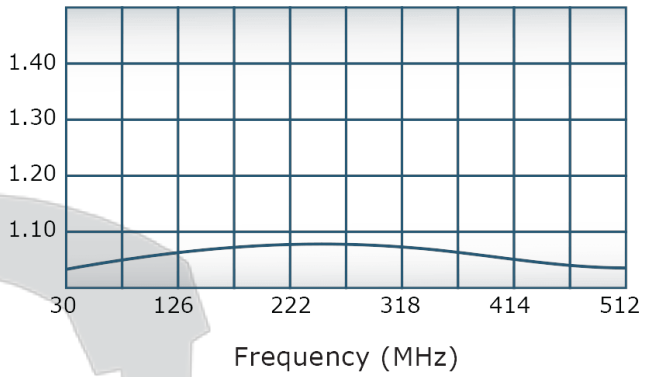


Performance Data (Specifications subject to change without notice):

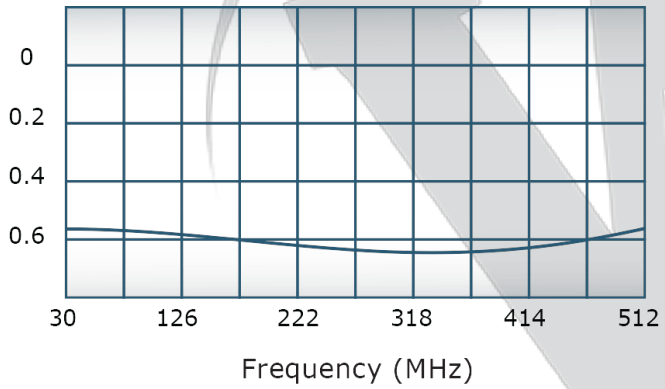
Coupling:



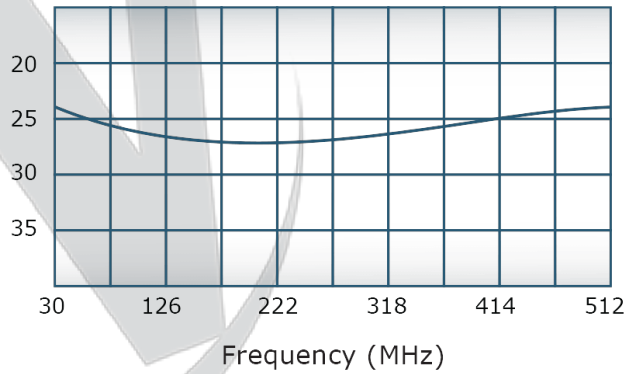
VSWR:



Insertion Loss:



Directivity:



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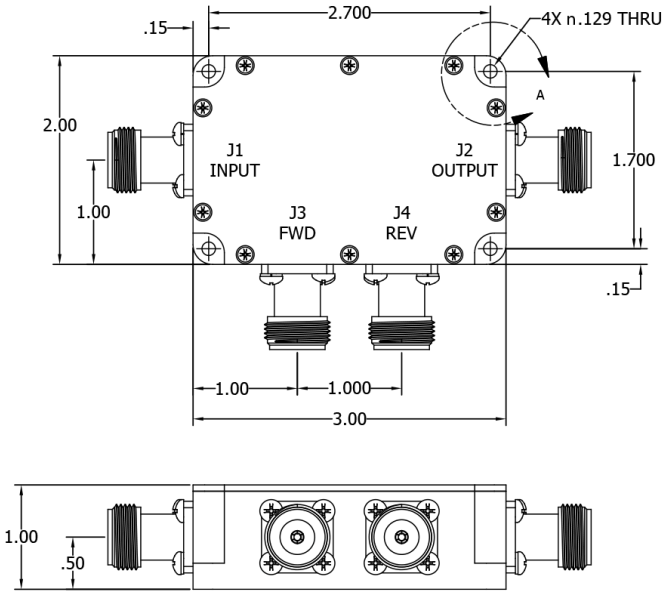
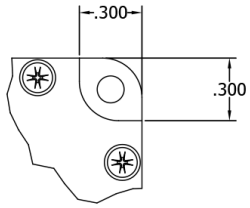
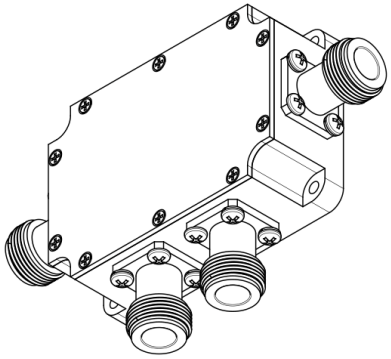
REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	8/31/2011	BW





DETAIL A
SCALE 2 : 1



UNLESS OTHERWISE SPECIFIED				
• INTERPRET DRAWING IAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARANTHETICAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ±2° 3 PL ± .005 2 PL ± .015	DWN	GP	DATE 2/25/13	WERLATONE SINCE 1965 — 17 Jon Barrett Rd Patterson, NY 12563
	CHK	CS	DATE 2/25/13	TITLE
	ENGR		DATE	
	MFGR		DATE	SIZE: B — CAGE CODE: 28812 — DWG NO: 21012-500 — REV: -
	QA		DATE	
THIRD ANGLE PROJECTION	RLSE		DATE	SCALE: 1:1 — SHEET 1 OF 1

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