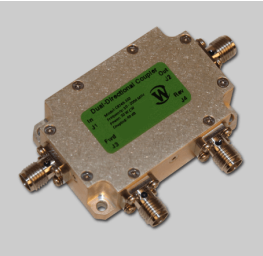
WERLATONE

Model C8749
Connectorized Directional Couplers



PRODUCT DATA SHEET **C8749**

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:	50 - 2000 MHz
Power:	30 W CW
Coupling:	40 ± 1.0 dB Max.
Insertion Loss:	0.5 dB Max.
Flatness:	± 1.25 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:	1.76 x 1.16 x 0.565''

Connector Configurations:

Model	**Input (J1)**	**Output (J2)**	**Fwd (J3)**	**Rev (J4)**
C8749-102	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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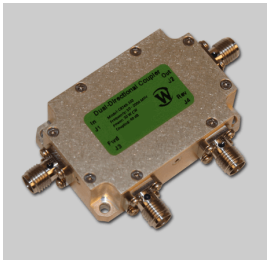
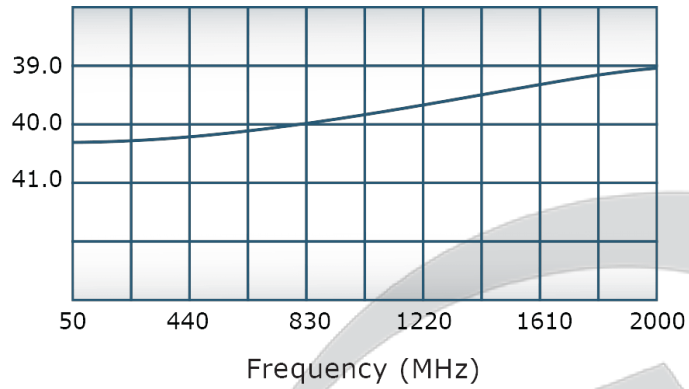
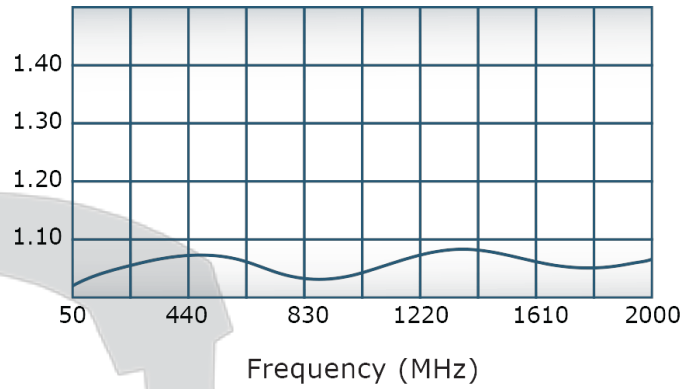


Performance Data (Specifications subject to change without notice):

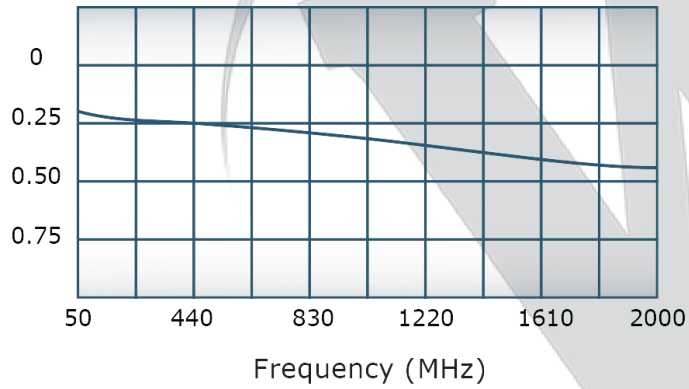
Coupling:



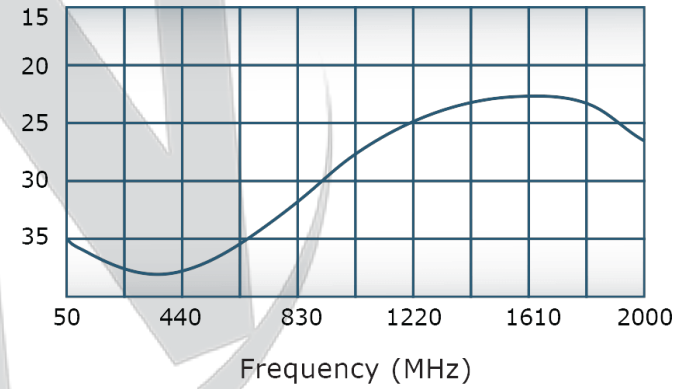
VSWR:



Insertion Loss:



Directivity:



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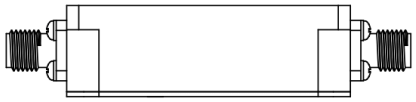
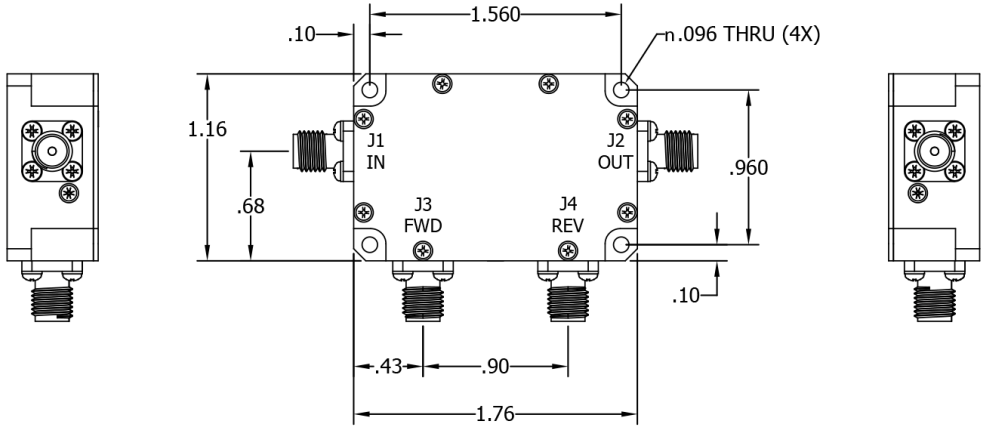
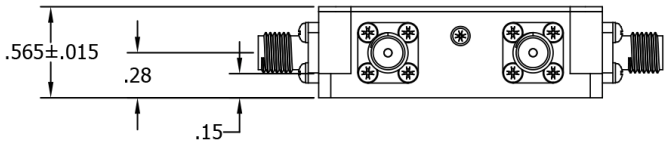
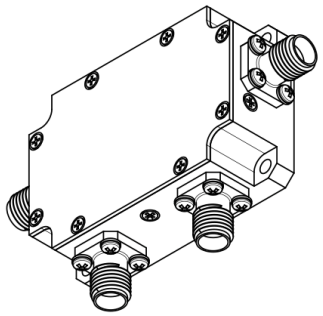
REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	7/23/10	BW
A	ECN 5268	12/10/10	BW









UNLESS OTHERWISE SPECIFIED					
• INTERPRET DRAWING IAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHETICAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° .XXX ± .005 .XX ± .015 • HOLE TOLERANCES ±.005 THIRD ANGLE PROJECTION	DWN	GP	DATE	12/10/2010	WERLATONE | SINCE 1965 — 17 Jon Barrett Rd, Patterson, NY 12563
	CHK	NH	DATE	12/10/2010	
	ENGR	BW	DATE	12/10/2010	
	MFGR		DATE		
	QA		DATE		SIZE: A | CAGE CODE: 28812 | DWG NO: 20675-500 | REV: A
	RLSE	BW	DATE	12/10/2010	SCALE: 1:1 | SHEET 1 OF 1

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