
PRODUCT DATA SHEET
C9191

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: 20 - 1000 MHz
 Power: 100 W CW
 Coupling: 30 ± 1.0 dB Max.
 Flatness: ± 0.5 dB Max.
 Insertion Loss: 0.7 dB Max.
 VSWR (ML): 1.25:1 Max.
 Directivity: 20 dB Min.

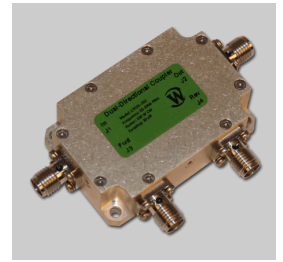
Mechanical Specifications:

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:

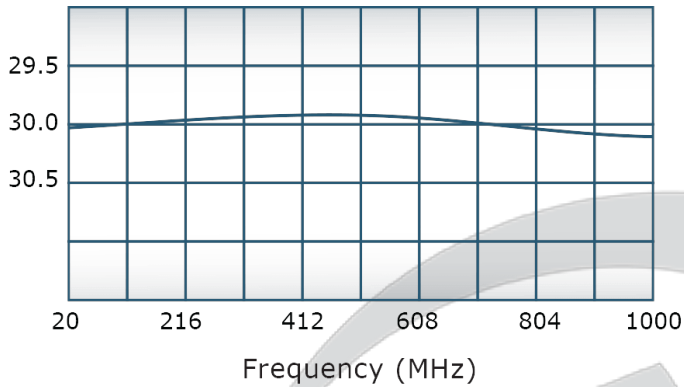
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C9191-102	SMA	SMA	SMA	SMA

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.

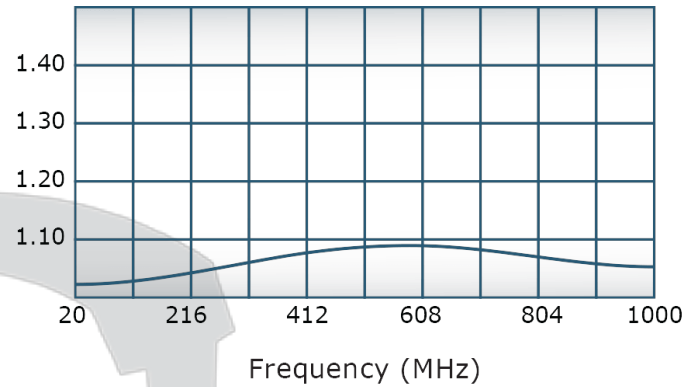


Performance Data (Specifications subject to change without notice):

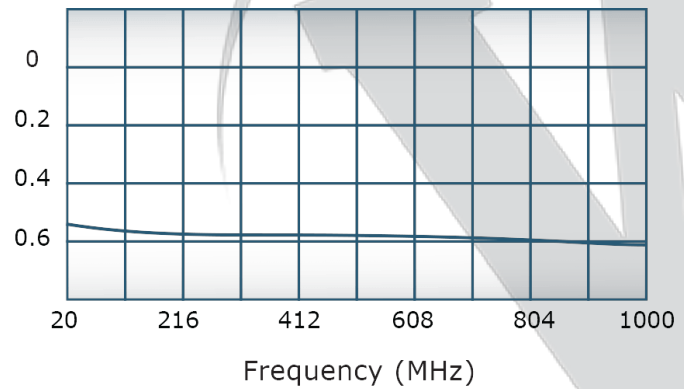
Coupling:



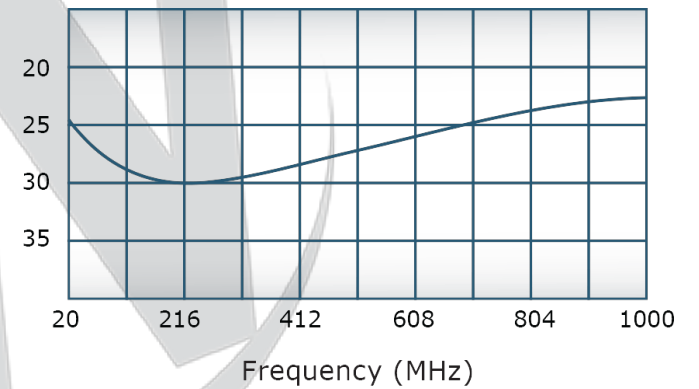
VSWR:



Insertion Loss:



Directivity:



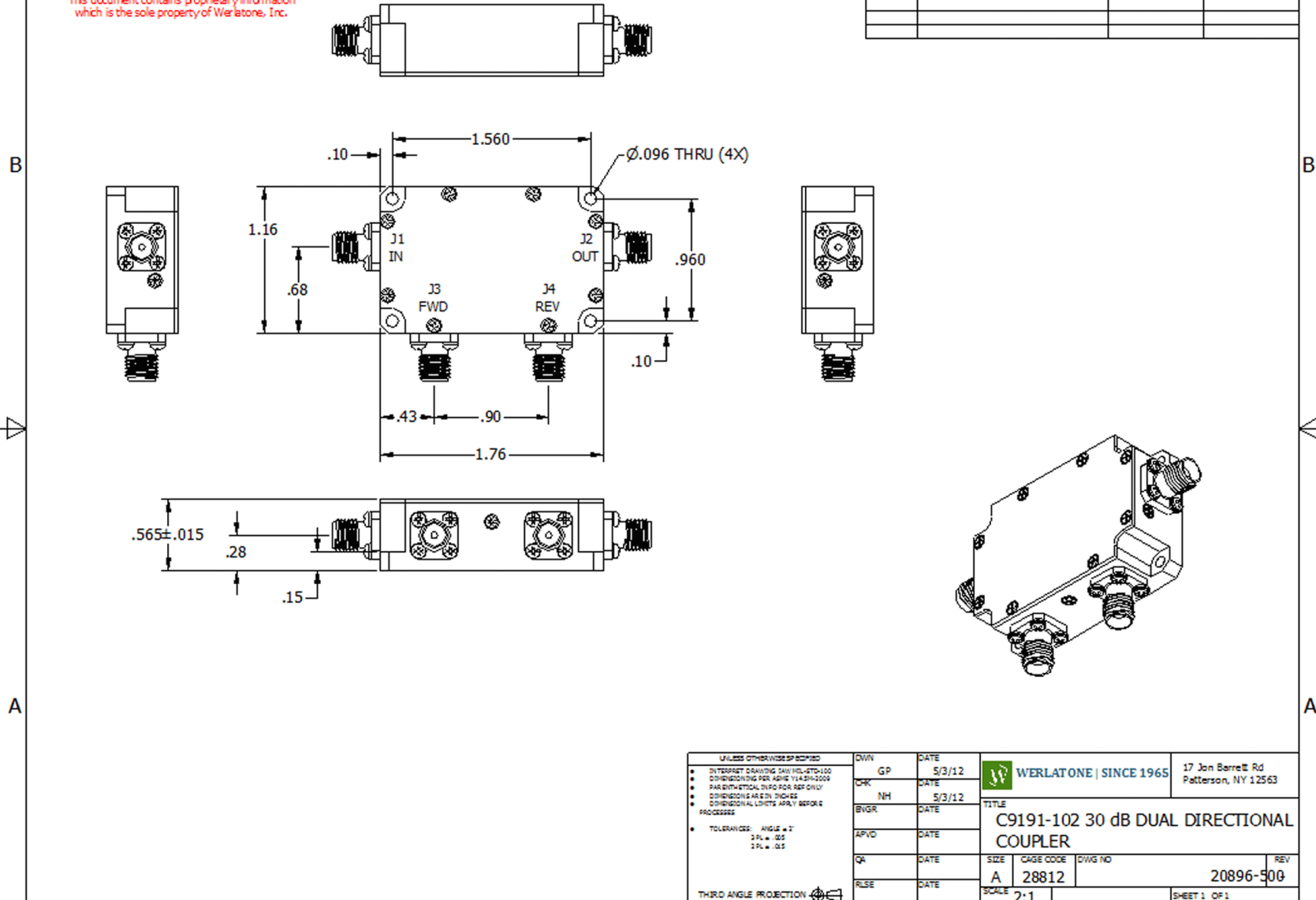
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Werlatone, Inc.

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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	5/3/12	BW



<small>UNLESS OTHERWISE SPECIFIED</small> • INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2009 • DIMENSIONS PER ASME Y14.5-2009 • PARALLEL SURFACES FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSING • TOLERANCES: ANGLES = 1° 2PL = .005 3PL = .015	DWN	GP	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
	CHK	NH	DATE	
	ENGR	DATE		
	APVD	DATE		
	QA	DATE		TITLE
	RLSE	DATE		C9191-102 30 dB DUAL DIRECTIONAL COUPLER SIZE: A CAGE CODE: 28812 DWG NO: 20896-500 REV: 000 SCALE: 2:1 SHEET 1 OF 1

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