
**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:  $30 \pm 1.0$  dB Max.  
Flatness:  $\pm 0.5$  dB Max.  
Insertion Loss: 0.7 dB Max.  
VSWR (ML): 1.25:1 Max.  
Directivity: 20 dB Min.

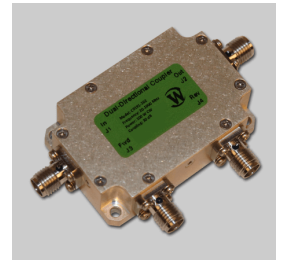
**Mechanical Specifications:**

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.

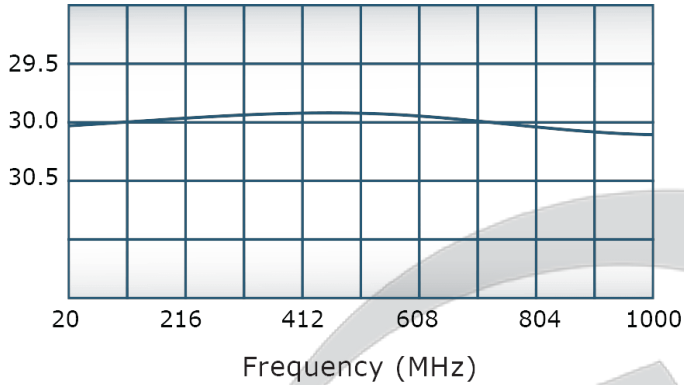


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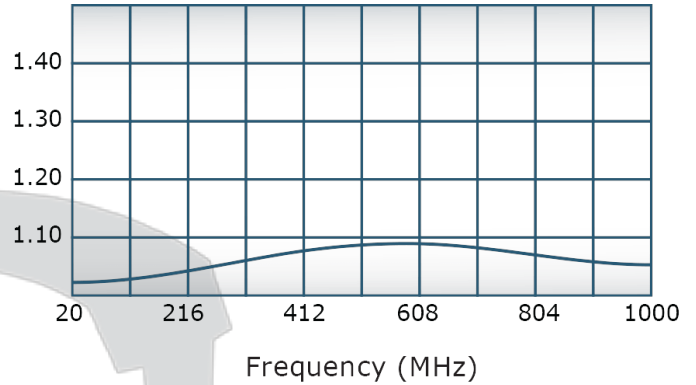
C9191

### Performance Data (Specifications subject to change without notice):

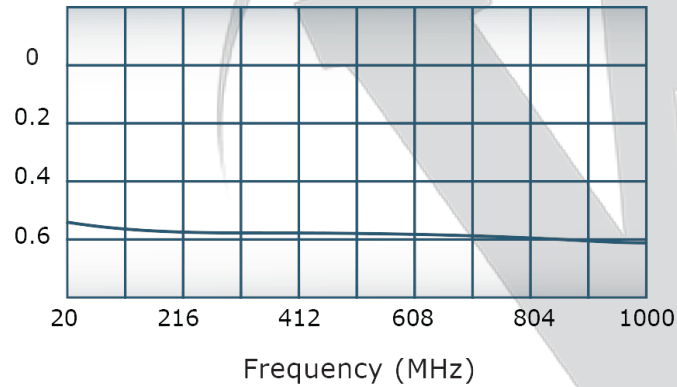
Coupling:



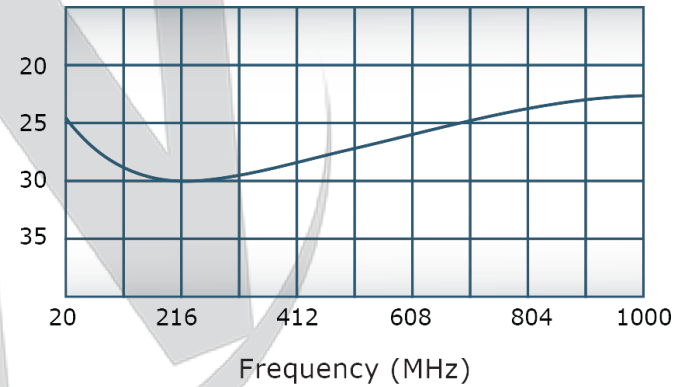
VSWR:



Insertion Loss:



Directivity:



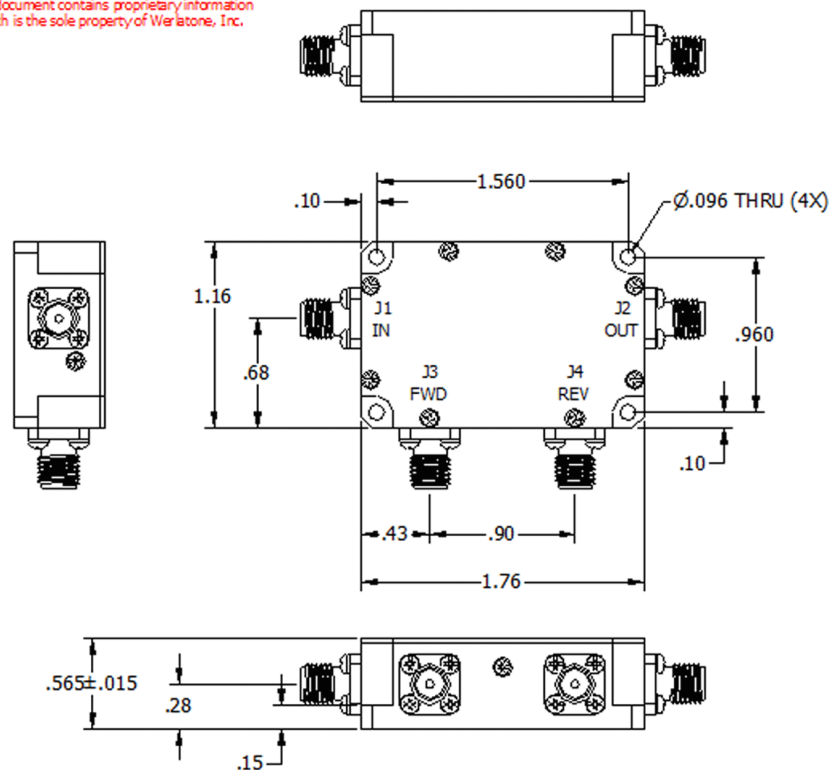
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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	5/3/12	BW

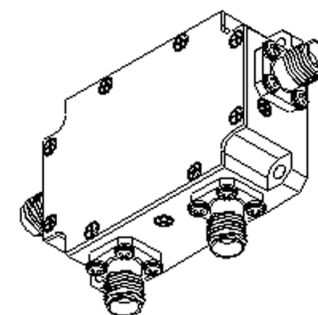
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UNLESS OTHERWISE SPECIFIED		DWN	DATE	 <b>WERLATONE   SINCE 1965</b>		17 Jon Barrett Rd Patterson, NY 12563	
• INTERPRET DRAWING (AWI) 101-100 • DIMENSIONS PER ASME Y14.5-2009 • PARALLEL SURFACES FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSING • TOLERANCES: ANGLES ± 1° 2 PL ± .005 3 PL ± .015		GP	5/3/12				
THIRD ANGLE PROJECTION		CRK	DATE	<b>TITLE</b> C9191-102 30 dB DUAL DIRECTIONAL COUPLER		<b>REV</b> 20896-500	
		NH	5/3/12				
		BNGR	DATE	<b>SIZE</b> A		<b>CAGE CODE</b> 28812	
		APVD	DATE	<b>SCALE</b> 2:1		<b>DWG NO</b> 20896-500	
		QA	DATE				
		RLSE	DATE				
						SHEET 1 OF 1	

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