
**PRODUCT DATA SHEET**
**C9184**

**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:          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"

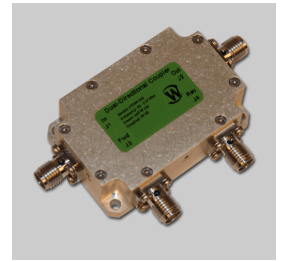
**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C9184-102	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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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

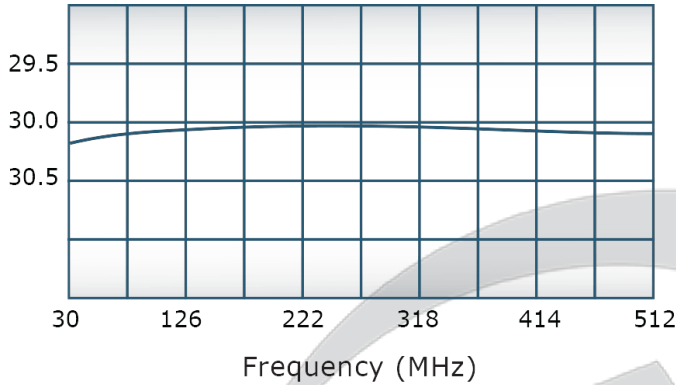


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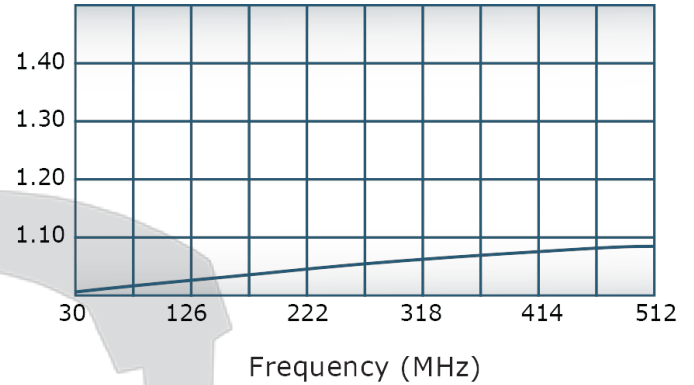
C9184

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

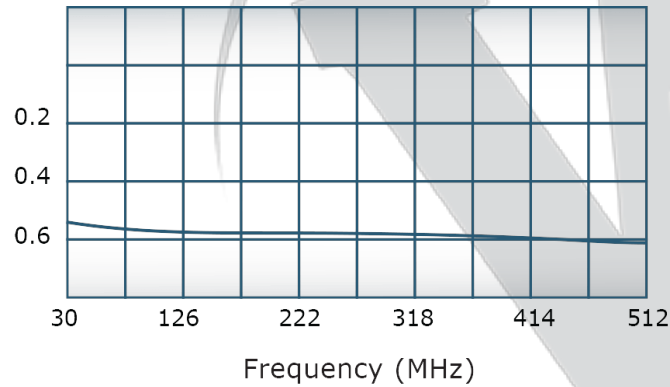
Coupling:



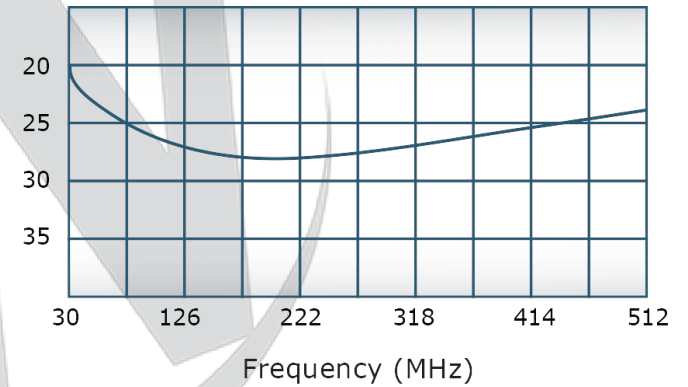
VSWR:



Insertion Loss:



Directivity:



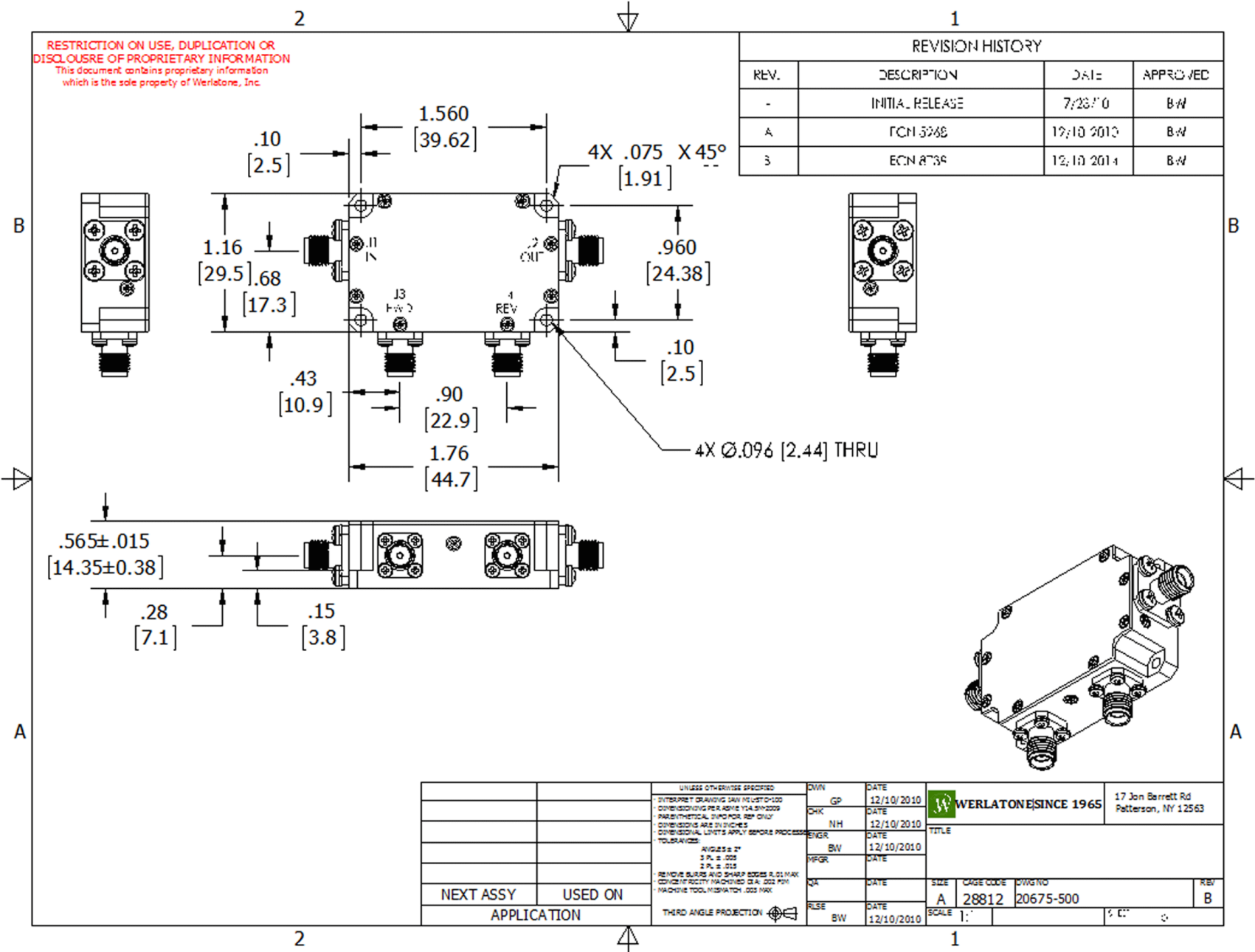
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REVISION HISTORY			
REV.	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	7/23/10	B-W
A	ECN 5948	12/10/2010	B-W
B	ECN 8739	12/10/2011	B-W



UNLESS OTHERWISE SPECIFIED		DWN	DATE	<b>WERLATONE SINCE 1965</b> 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING DRAWING LISTED-100		GP	12/10/2010	
CONVERSIONS PER ASME Y14.5-2009		CHK	DATE	TITLE
PARALLELISM SURF POS REL ONLY		NH	12/10/2010	
DIMENSIONS ARE IN INCHES		ENGR	DATE	SIZE CASE CODE DWGNO <b>A 28812 20675-500</b>
DIMENSIONAL LIMITS APPLY BEFORE PROCESSING		BW	12/10/2010	
TOLERANCES:		MPGR	DATE	SCALE 1:1 1" = 1"
FRACTIONS ± .01		QA	DATE	
REMOVE BURRS AND SHARP EDGES R.01 MAX		RLSE	DATE	REV <b>B</b>
DEVICE PROPERTY MAINTAINED @ 0.002 PPM		BW	12/10/2010	
WELDING TOOL MAINTENANCE .002 MAX				
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		
APPLICATION				

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