
PRODUCT DATA SHEET
C9655

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.
 Insertion Loss: 0.7 dB Max.
 Flatness: ± 0.5 dB Max.
 VSWR (ML): 1.25:1 Max.
 Directivity: 20 dB Min.

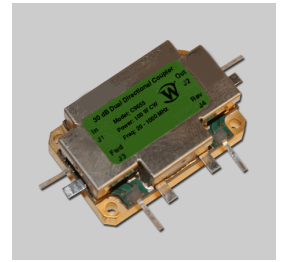
Mechanical Specifications:

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: 1.5 x 0.95 x 0.55"

Connector Configurations:

Model	J1	J2	J3	J4
C9655	Input	Output	Forward	Reverse

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.

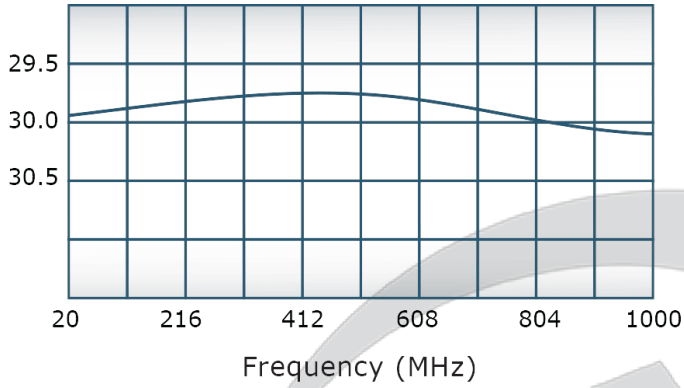


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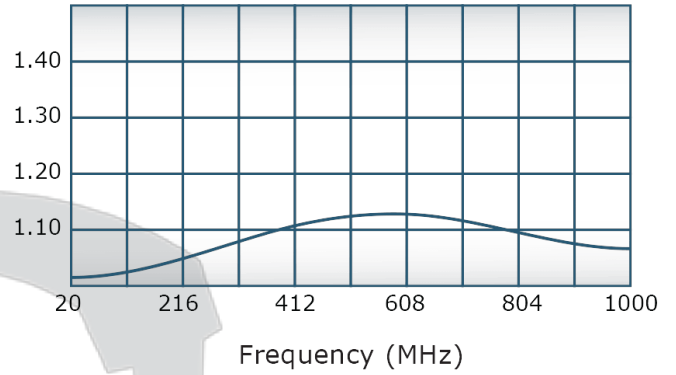
C9655

Performance Data (Specifications subject to change without notice):

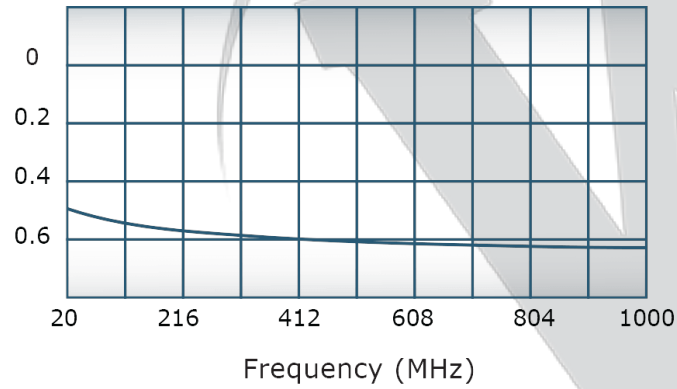
Coupling:



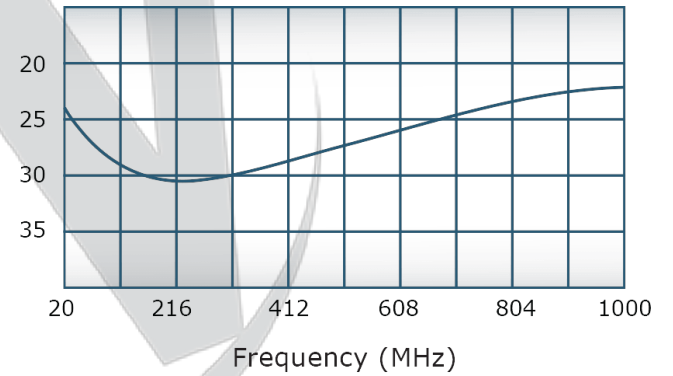
VSWR:



Insertion Loss:



Directivity:



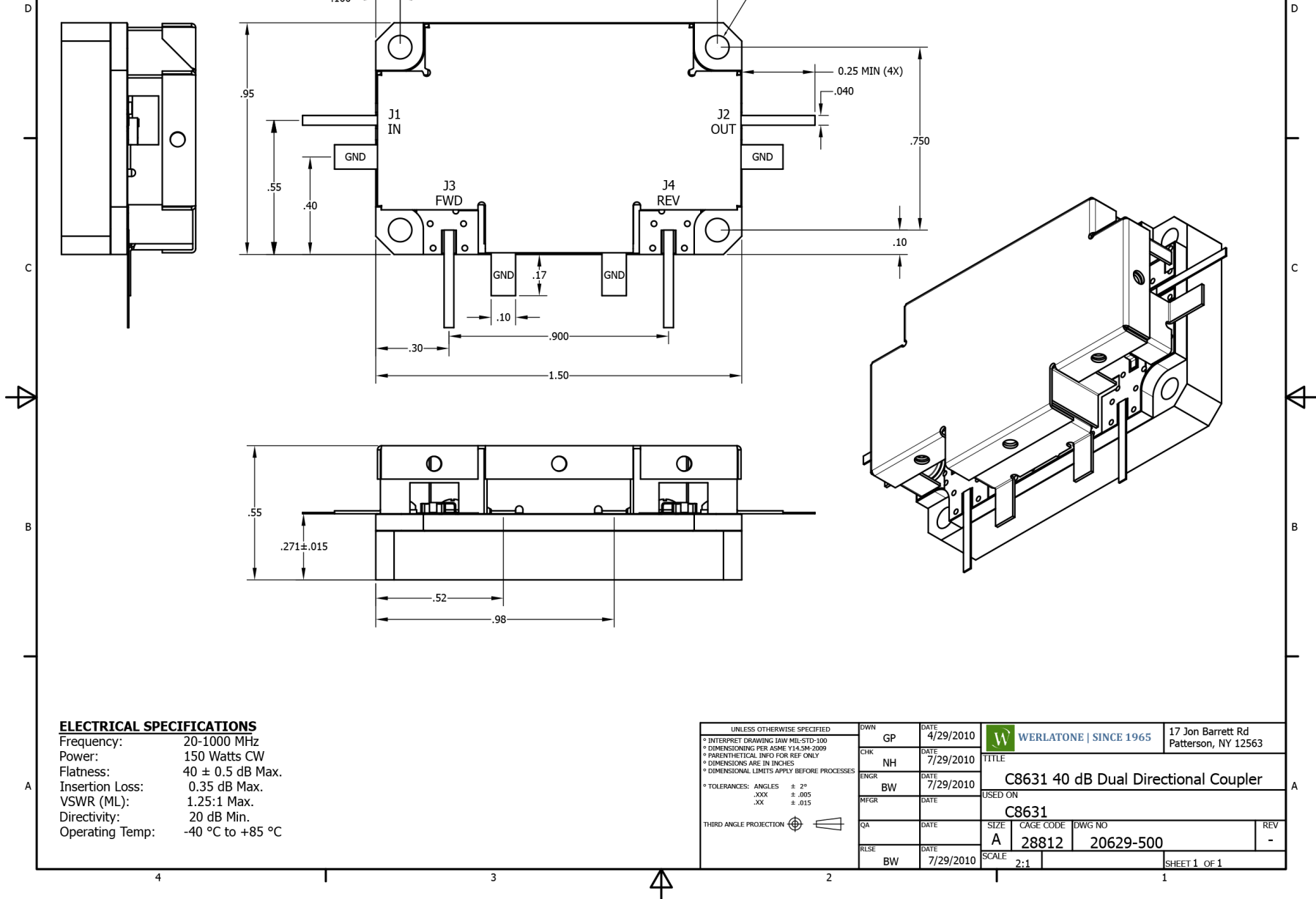
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Werlatone, Inc.

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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
7/29/2010	-	INITIAL RELEASE	GP	NH	



ELECTRICAL SPECIFICATIONS
 Frequency: 20-1000 MHz
 Power: 150 Watts CW
 Flatness: 40 ± 0.5 dB Max.
 Insertion Loss: 0.35 dB Max.
 VSWR (ML): 1.25:1 Max.
 Directivity: 20 dB Min.
 Operating Temp: -40 °C to +85 °C

UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
* 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		GP	4/29/2010		
THIRD ANGLE PROJECTION		CHK	DATE	TITLE	
		NH	7/29/2010	C8631 40 dB Dual Directional Coupler	
		ENGR	DATE	USED ON	
		BW	7/29/2010	C8631	
		MFR	DATE	SIZE	CAGE CODE
		QA		A	28812
		RLSE	DATE	DWG NO	REV
		BW	7/29/2010	20629-500	-
				SCALE	
				2:1	
					SHEET 1 OF 1

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