



PRODUCT DATA SHEET

C9685

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: 51 - 61 MHz
Power: 2000 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.1 dB Max.
Flatness: ± 0.25 dB Max.
VSWR (ML): 1.15:1 Max.
Directivity: 25 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: 5.0 x 3.0 x 1.87"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C9685-10	N Female	N Female	N Female	N Female
C9685-12	N Female	N Female	SMA	SMA
C9685-13	N Female	N Female	BNC	BNC

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.



WERLATONE

Model C9685

Connectorized Directional Couplers

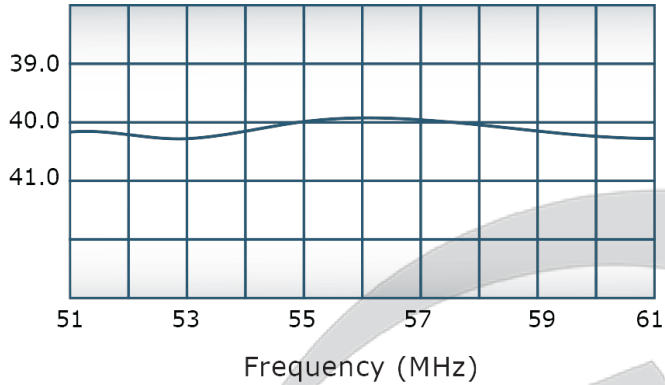


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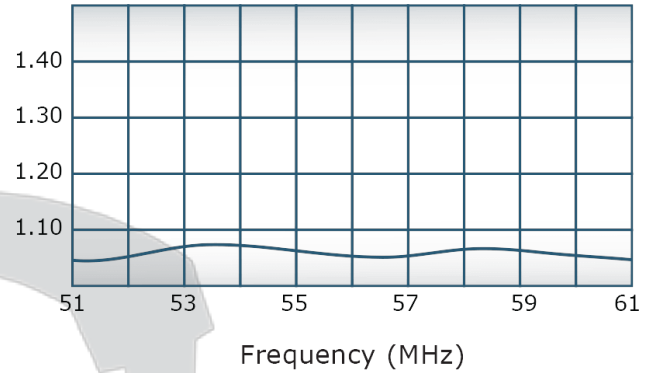
C9685

Performance Data (Specifications subject to change without notice):

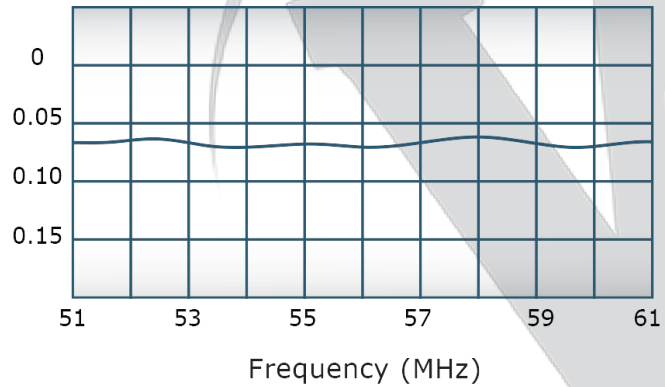
Coupling:



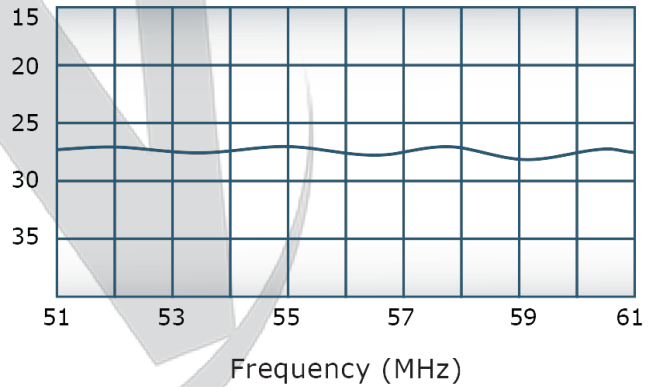
VSWR:



Insertion Loss:



Directivity:

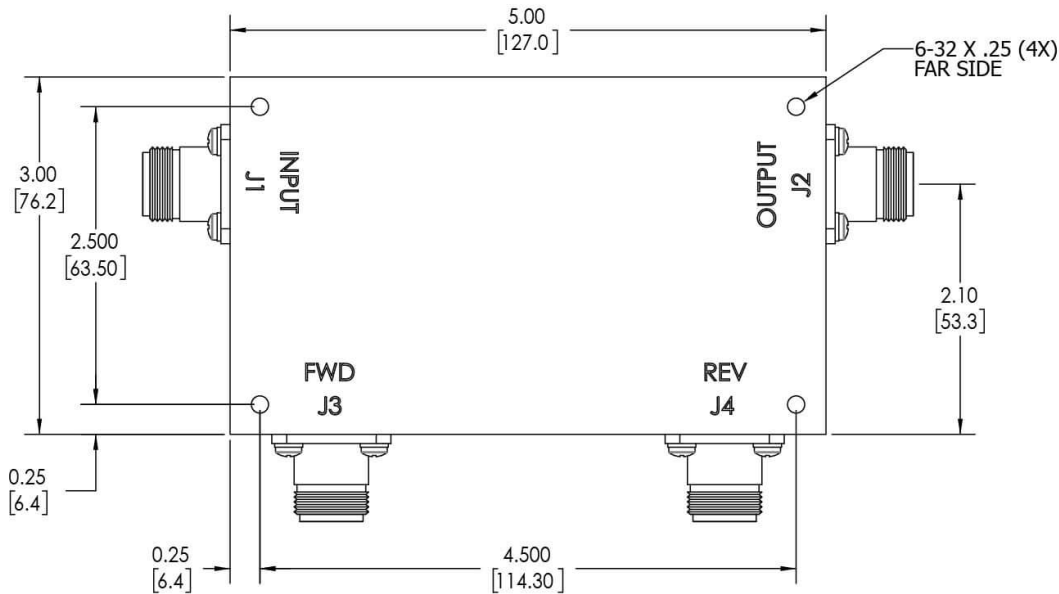


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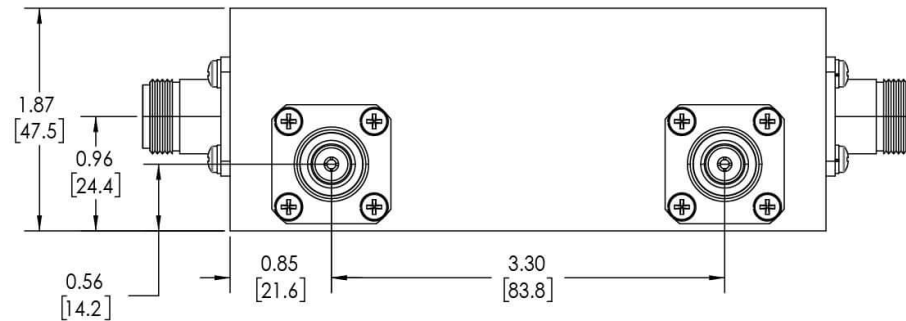
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/15/2019	RB



- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
 - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
 - CONNECTORS:**
J1-J4: N FEMALE



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	5/14/2019		
		DIMENSIONS FOR ASSEMBLY PER MIL-STD-100		CHK	DATE		
		PARENTHERETICAL INFO FOR REF ONLY		CS	5/14/2019		
		DIMENSIONS ARE IN INCHES		ENGR	DATE		
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	OUTLINE SIZE: CAGE CODE DWG NO B 10046-500	REV A
		TOLERANCES:		QA	DATE		
		ANGLES ± 2° 3 PL ± .005 [13] 2 PL ± .015 [38] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA. .002 FIM MACHINE TOOL MISMATCH .003 MAX		RLSE	DATE		
NEXT ASSY		USED ON		THIRD ANGLE PROJECTION		SCALE	SHEET 1 OF 1
APPLICATION						1:1	

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