
PRODUCT DATA SHEET
C7881

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 - 500 MHz
 Power: 25 W CW
 Coupling: 30 ± 1.0 dB Max.
 Insertion Loss: 0.75 dB Max.
 Flatness: ± 1.0 dB Max.
 VSWR (ML): 1.20:1 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: 2.7 x 1.5 x 1.1"

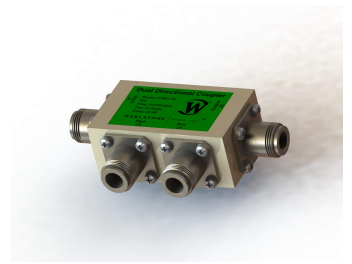
Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C7881-10	N Female	N Female	N Female	N Female
C7881-12	N Female	N Female	SMA	SMA
C7881-102	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

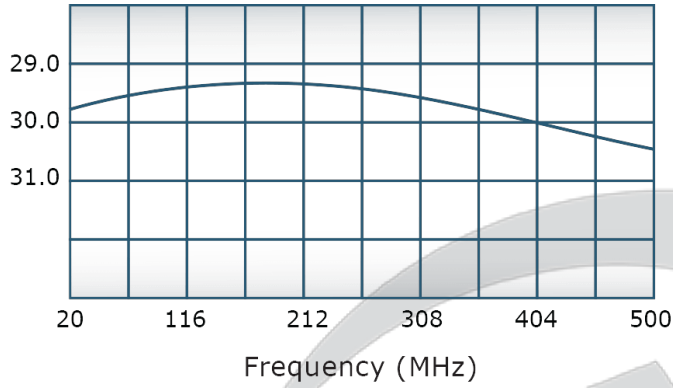


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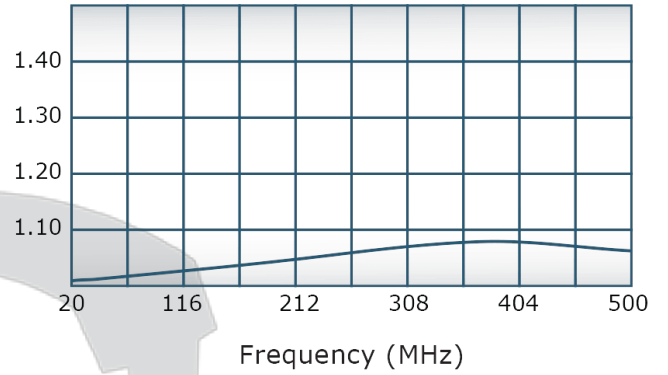
C7881

Performance Data (Specifications subject to change without notice):

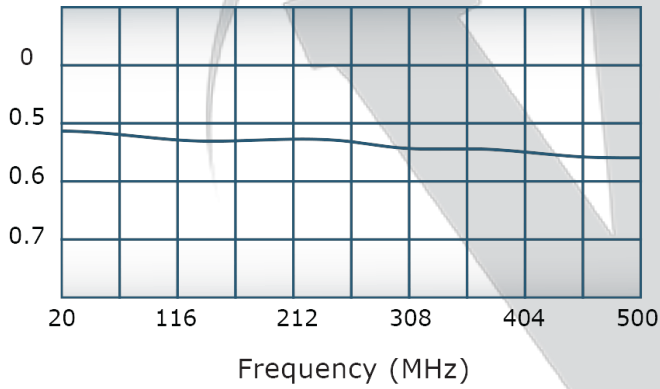
Coupling:



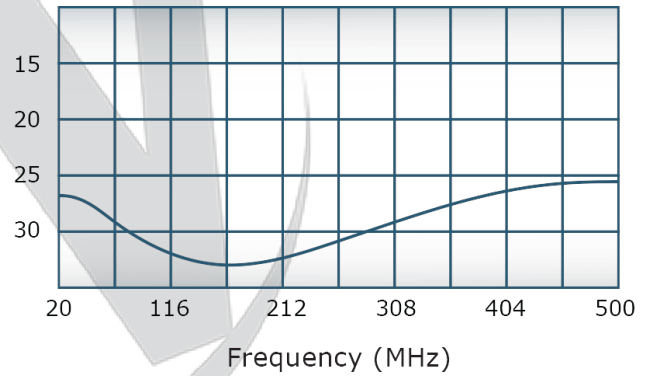
VSWR:



Insertion Loss:



Directivity:



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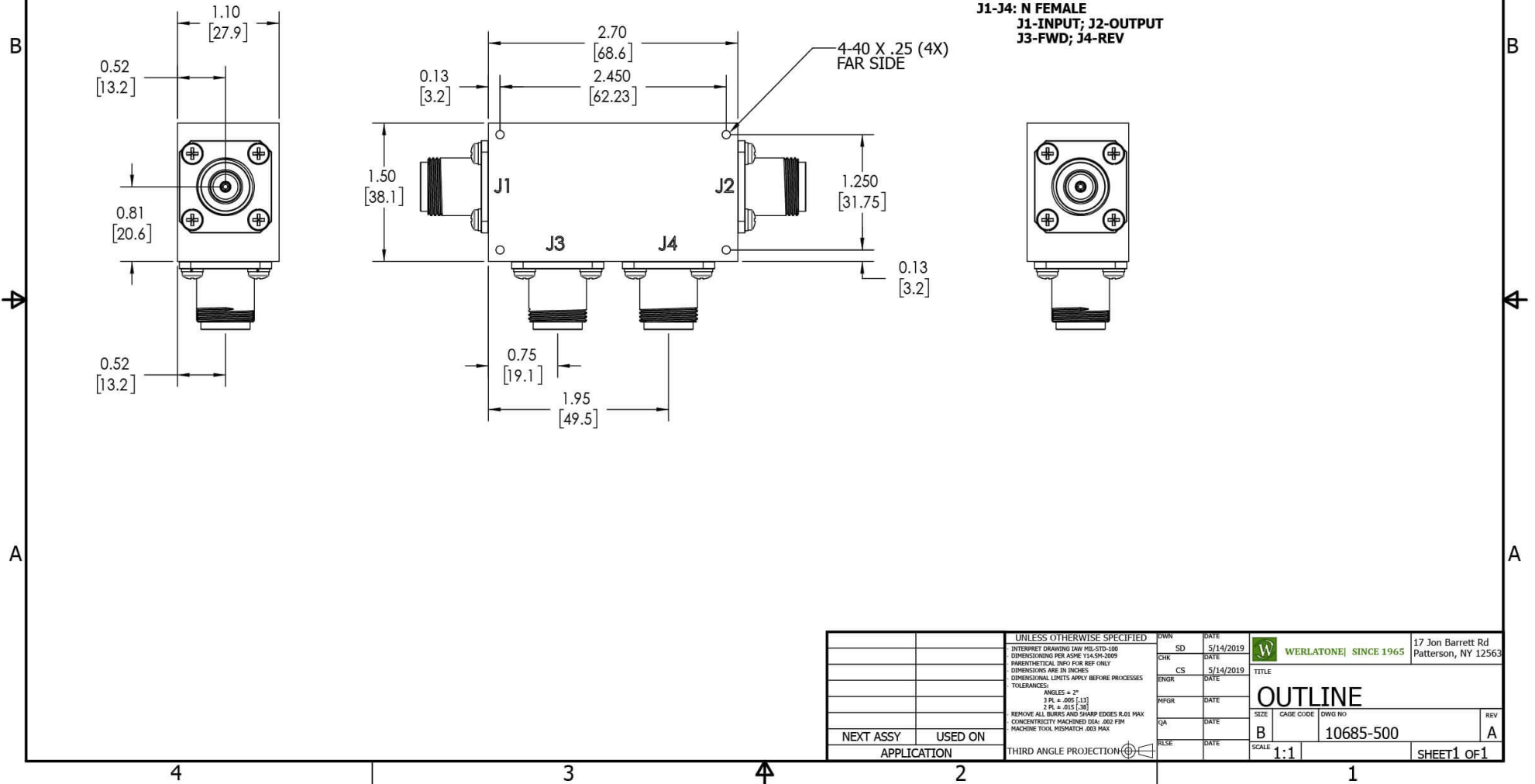
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/14/2019	RB

- 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
J1-INPUT; J2-OUTPUT
J3-FWD; J4-REV



UNLESS OTHERWISE SPECIFIED	DWN	DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	SD	5/14/2019	W WERLATONE SINCE 1965
DIMENSIONS FOR ASSEMBLY PER MIL-STD-100	CHK	DATE	
PARENTHESES FOR REFERENCE ONLY	CS	5/14/2019	TITLE
DIMENSIONS ARE IN INCHES	ENGR	DATE	OUTLINE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE	SIZE CAGE CODE DWG NO
TOLERANCES:	QA	DATE	B 10685-500
ANGLES ± 2°	RLSE	DATE	SCALE 1:1
3 PL ± .005 [13]			REV A
2 PL ± .015 [38]			SHEET 1 OF 1
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
CONCENTRICITY MACHINED DIA: .002 FIM			
MACHINE TOOL MISMATCH .003 MAX			
NEXT ASSY USED ON	THIRD ANGLE PROJECTION		
APPLICATION			

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