



PRODUCT DATA SHEET

C9481

3-Port Uni-Directional Coupler: Consists of a main line and a coupled line. One end of the coupled line is internally terminated, while the other end serves as a coupled port. Ideal for sampling and monitoring power in one direction at a given time. It is necessary to physically reverse the orientation of the unit to change from a forward to a reverse power measurement.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 300 - 2000 MHz
Power: 20 W CW
Coupling: 20 ± 1.0 dB Max.
Insertion Loss: 0.35 dB Max.
Flatness: ± 1.0 dB Max.
VSWR (ML): 1.20:1 Max.
Directivity: 18 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: 3.7 x 2.0 x 0.75"
Weight: 0.5 lbs.

Port Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)
C9481-10	N Female	N Female	N Female
C9481-12	N Female	N Female	SMA
C9481-102	SMA	SMA	SMA

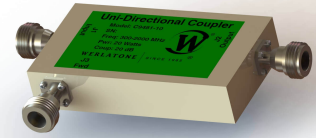
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.



WERLATONE

Model C9481

Connectorized Directional Couplers

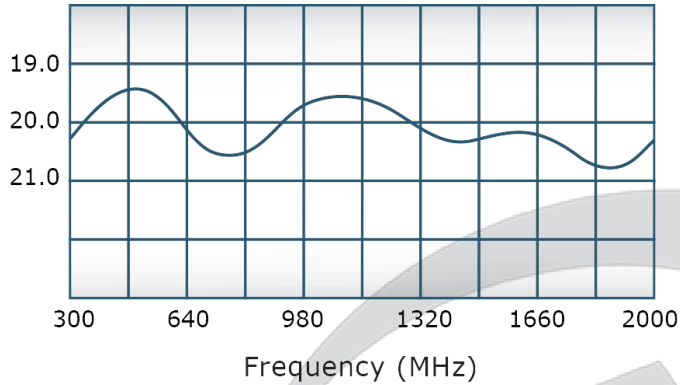


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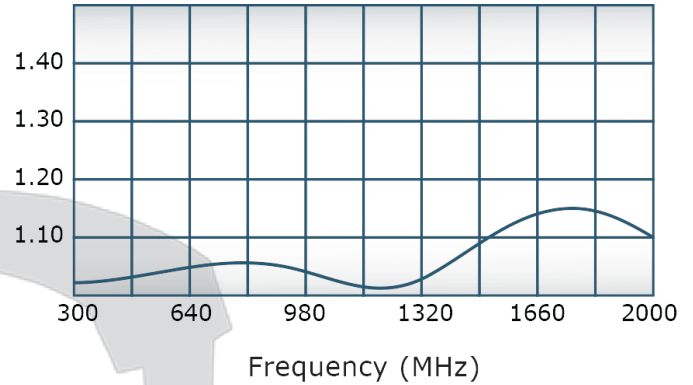
C9481

Performance Data (Specifications subject to change without notice):

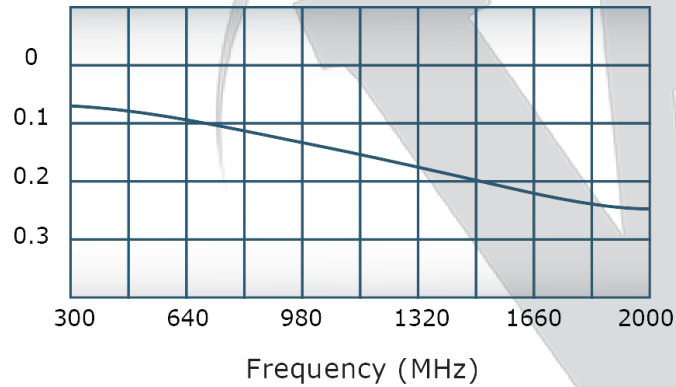
Coupling:



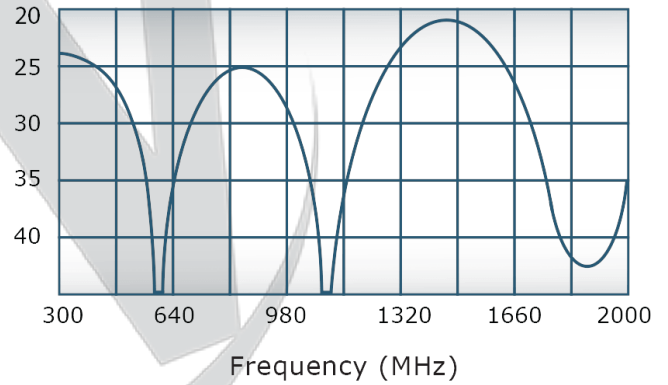
VSWR:



Insertion Loss:



Directivity:



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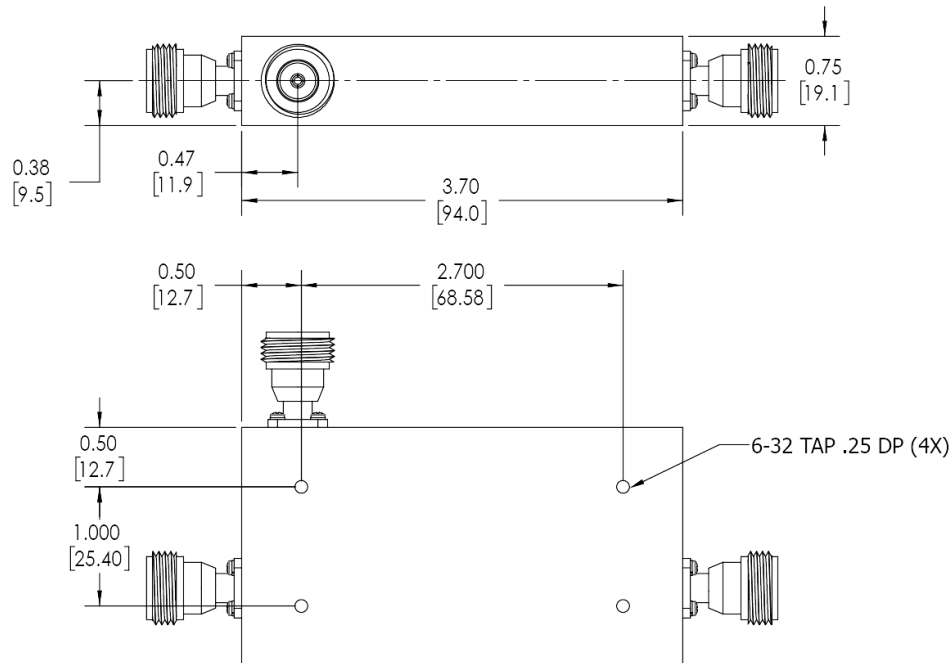
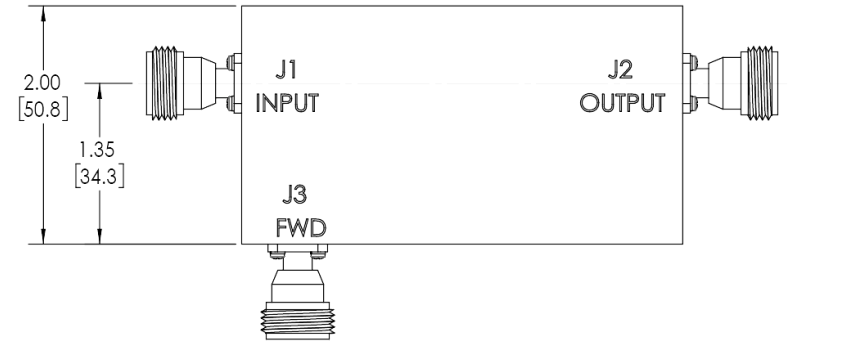
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	7/6/2020	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:**
J1-J3: 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		DATE			
DIMENSIONS PER ASME Y14.5M-2009		CHK		DATE	7/6/2020	OUTLINE SIZE CAGE CODE DWG NO B 20178-500	
PARENTHESES FOR REF ONLY		CS		DATE			
DIMENSIONS ARE IN INCHES		ENGR		DATE	7/6/2020	REV A	
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		MFG		DATE			
TOLERANCES:		QA		DATE	7/6/2020	SCALE 1:1	
ANGLES ± 2°		RLSE		DATE			
3 PL ± .005 [13]						SHEET 1 OF 1	
2 PL ± .015 [38]							
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX							
CONCENTRICITY MACHINED DIA. .002 FIM							
MACHINE TOOL MISMATCH .003 FIM							
NEXT ASSY USED ON		THIRD ANGLE PROJECTION					
APPLICATION							

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