

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

C9481-10
C9481-12
C9481-102

Input (J1)

N Female
N Female
SMA

Output (J2)

N Female
N Female
SMA

Fwd (J3)

N Female
SMA
SMA

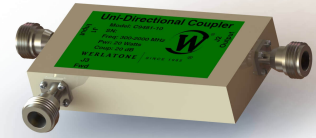
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C9481

Connectorized Directional Couplers

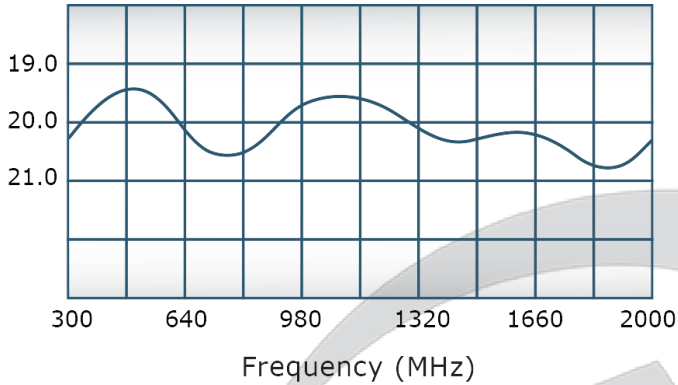


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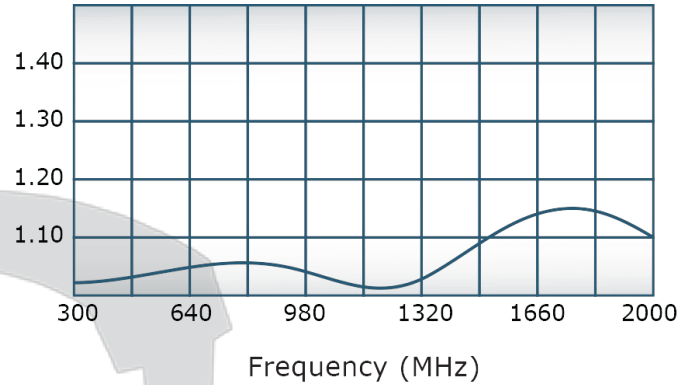
C9481

Performance Data (Specifications subject to change without notice):

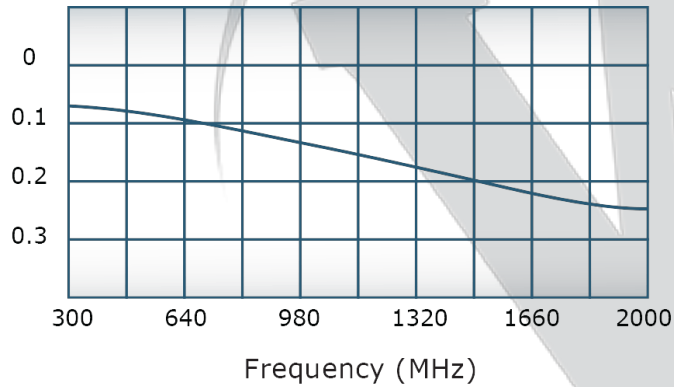
Coupling:



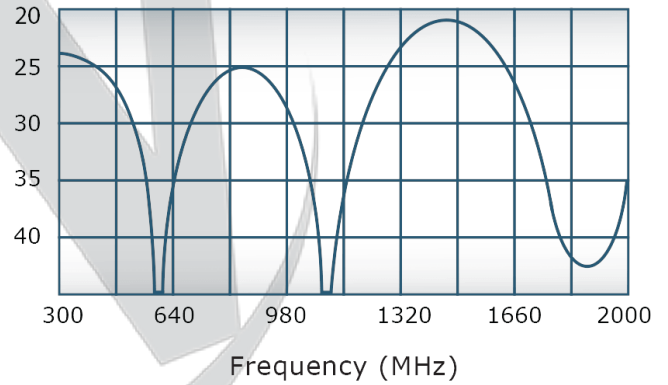
VSWR:



Insertion Loss:



Directivity:



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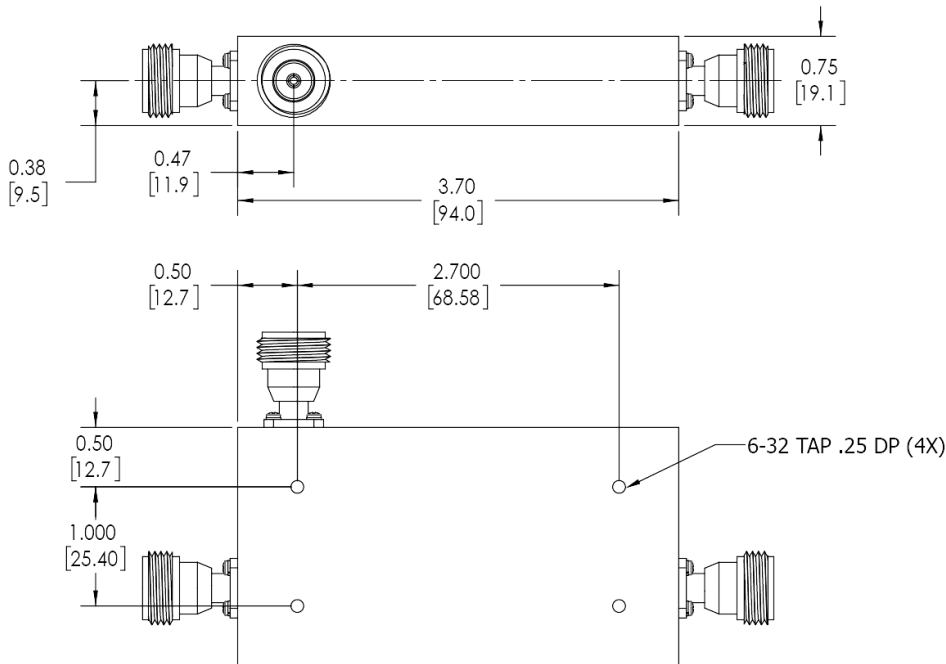
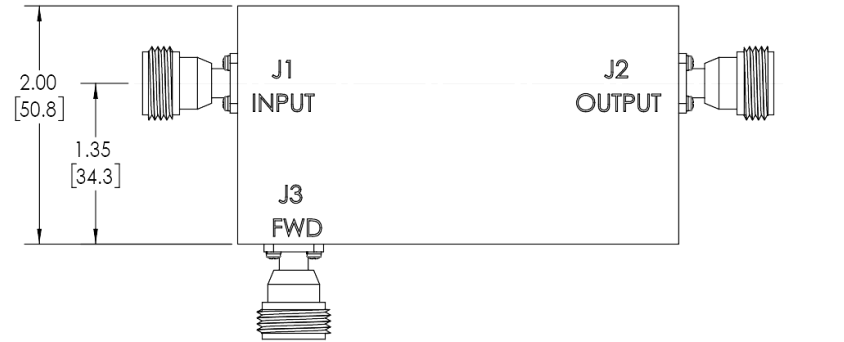
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REVISION HISTORY

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	SD		DATE	17 Jon Barrett Rd	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		CHK	DATE	CS		DATE	Patterson, NY 12563	
DIMENSIONS PER ASME Y14.5M-2009		ENGR	DATE	DATE		DATE	TITLE	
PARENTHESES FOR REF ONLY		DATE	DATE	DATE		DATE	SIZE	
DIMENSIONS ARE IN INCHES		DATE	DATE	DATE		DATE	CAGE CODE	
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		DATE	DATE	DATE		DATE	DWG NO	
TOLERANCES:		DATE	DATE	DATE		DATE	REV	
ANGLES ± 2°		DATE	DATE	DATE		DATE	A	
3 PL ± .005 [13]		DATE	DATE	DATE		DATE	1:1	
2 PL ± .015 [38]		DATE	DATE	DATE		DATE	20178-500	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		DATE	DATE	DATE		DATE	SHEET 1 OF 1	
CONCENTRICITY MACHINED DIA. .002 FIM		DATE	DATE	DATE		DATE		
MACHINE TOOL MISMATCH .003 FIM		DATE	DATE	DATE		DATE		
THIRD ANGLE PROJECTION		DATE	DATE	DATE		DATE		

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