
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.

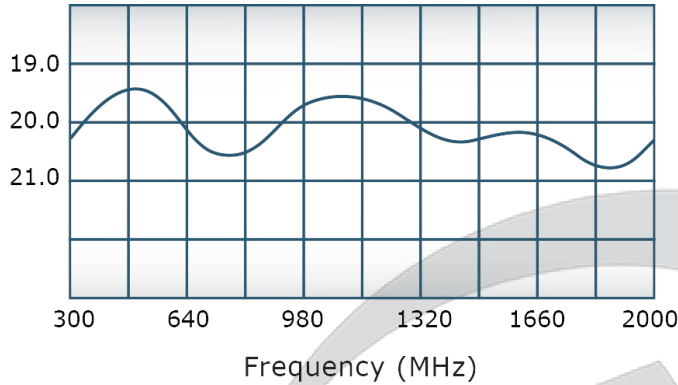
Port Configurations:

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

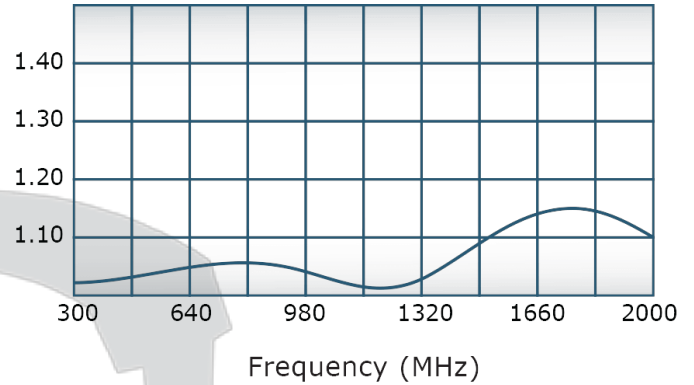
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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


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Performance Data (Specifications subject to change without notice):

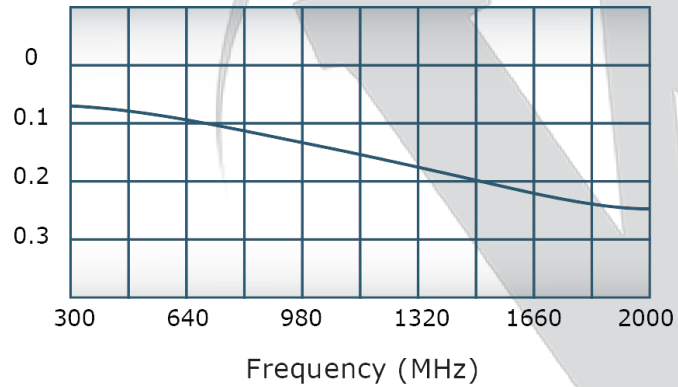
Coupling:



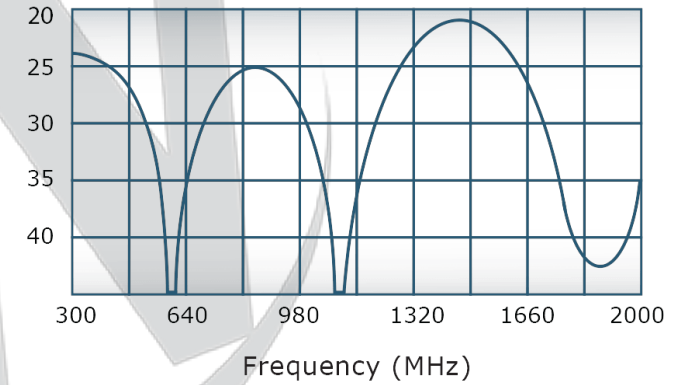
VSWR:



Insertion Loss:



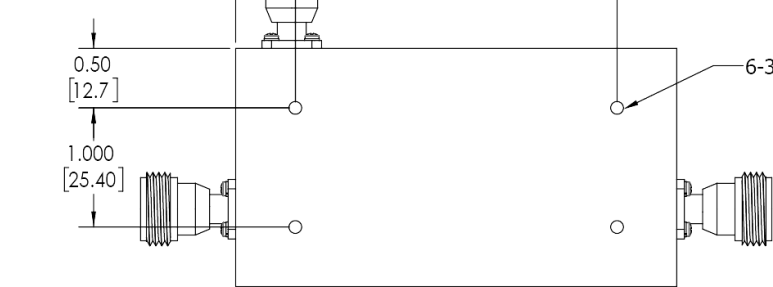
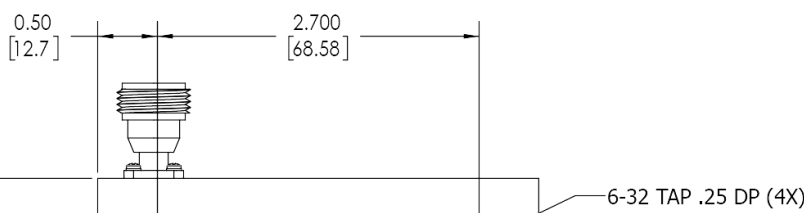
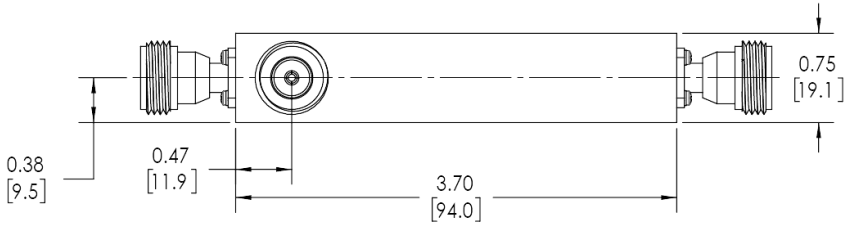
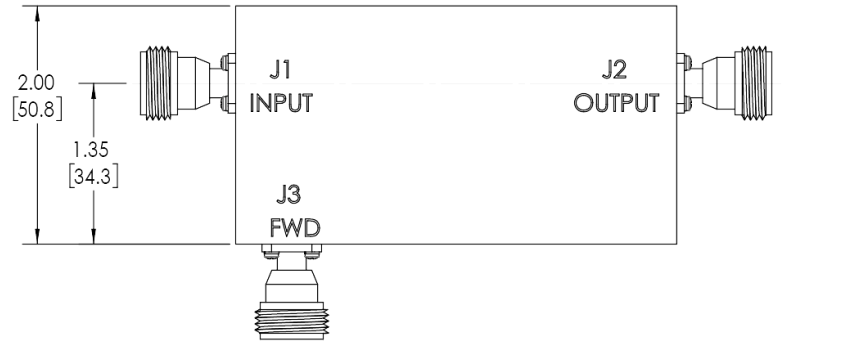
Directivity:



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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 IAW MIL-STD-100		SD	7/6/2020	
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE
PARENTHEICAL INFO FOR REF ONLY		CS	7/6/2020	
DIMENSIONS ARE IN INCHES		ENGR	DATE	REV
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INFR	DATE	A
TOLERANCES:		QA	DATE	SCALE
ANGLES = 2°		RLSE	DATE	1:1
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				
APPLICATION	THIRD ANGLE PROJECTION			

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