

PRODUCT DATA SHEET

C10381

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 - 200 MHz
 Power: 2500 W CW
 Coupling: 50 ± 1.0 dB Max.
 Insertion Loss: 0.3 dB Max.
 Flatness: ± 0.5 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: 6.0 x 3.0 x 1.09"

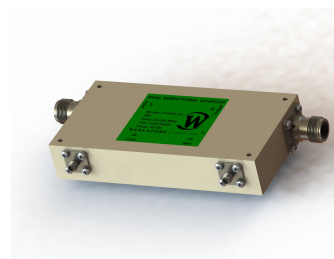
Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10381-10	N Female	N Female	N Female	N Female
C10381-12	N Female	N Female	SMA	SMA
C10381-13	N Female	N Female	BNC	BNC
C10381-43	SC Female	SC Female	SMA	SMA
C10381-714	N Male	N Female	N Female	N Female

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

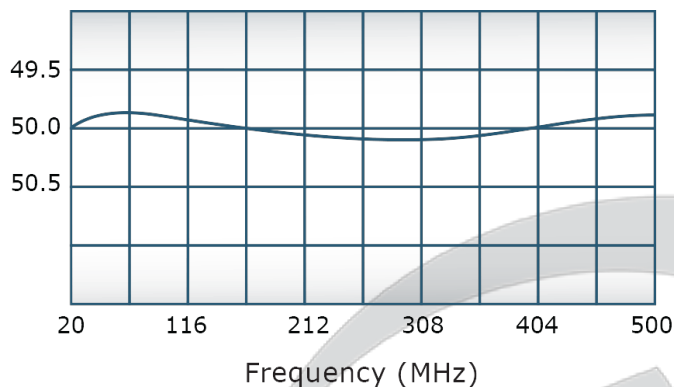


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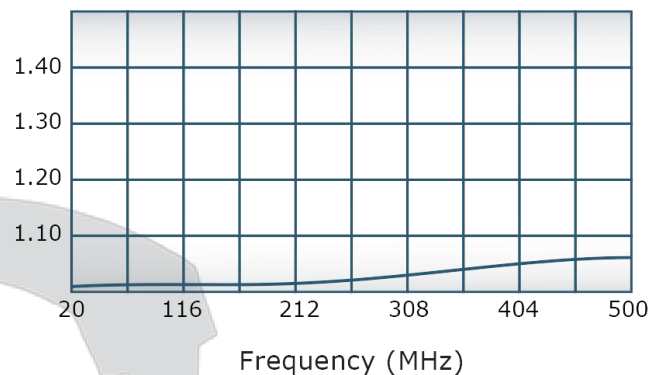
C10381

Performance Data (Specifications subject to change without notice):

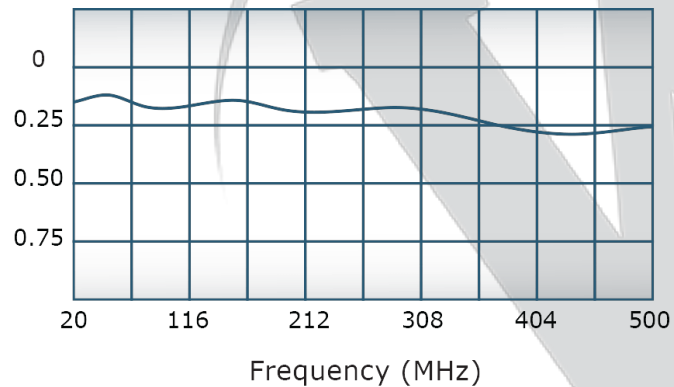
Coupling:



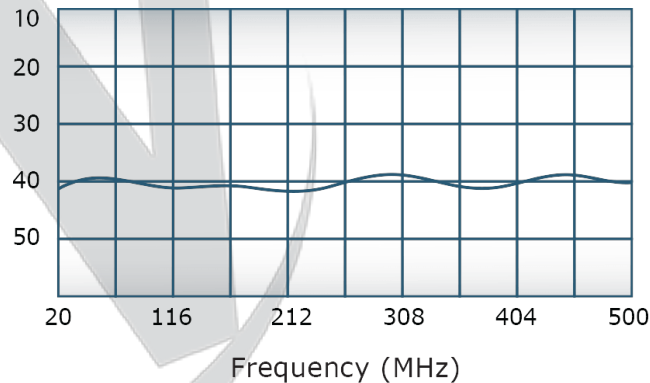
VSWR:



Insertion Loss:



Directivity:

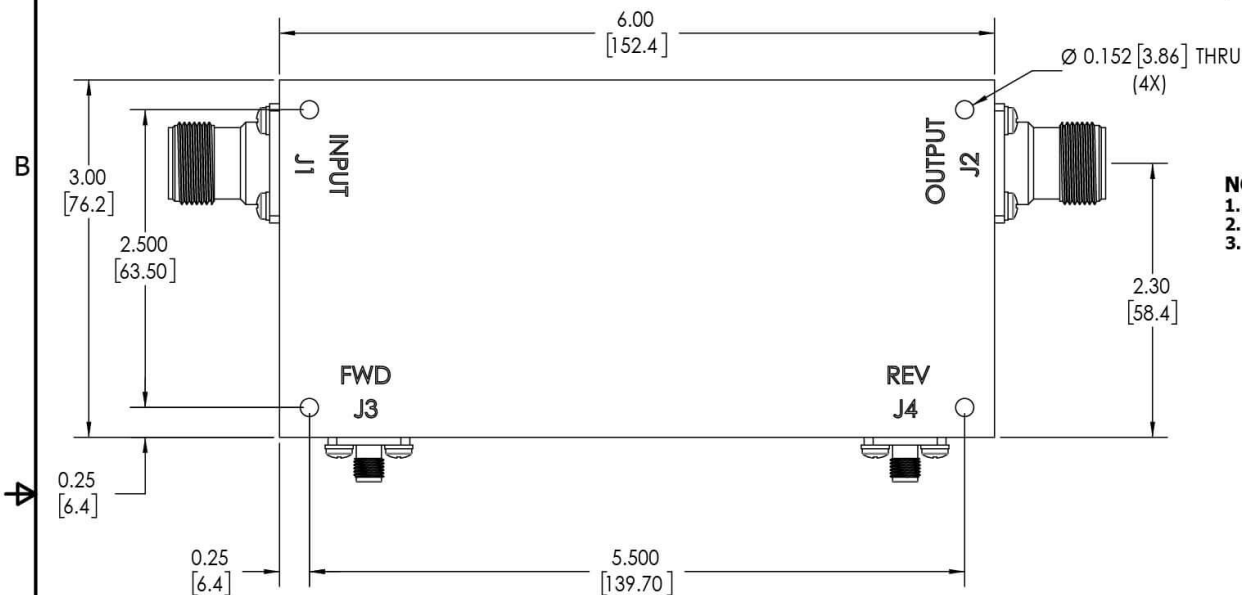


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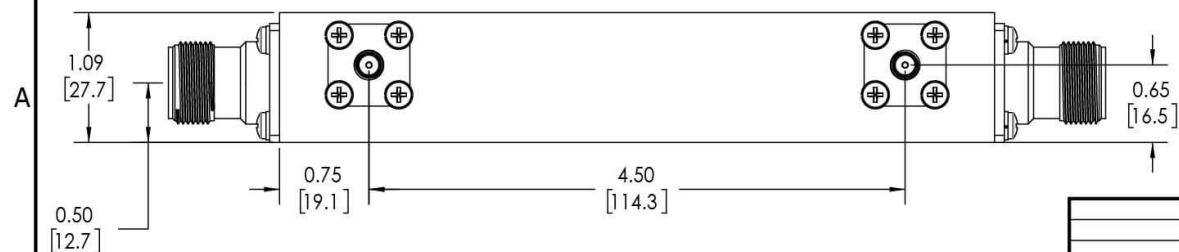
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	6/12/2019	RB



NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:
 - J1-J2: SC FEMALE
 - J3-J4: SMA FEMALE



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IN ACC. W/ MIL-STD-100		SD	6/12/2019			
		DIMENSIONING PER ASME Y14.5-2009		CHK	DATE			
		PARENT/CHILD INFO FOR REF ONLY		CS	6/12/2019		TITLE	
		DIMENSIONS ARE IN INCHES		ENGR	DATE		 OUTLINE	
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MFGR	DATE	SIZE		CAGE CODE
		TOLERANCES:		QA	DATE	DWG NO		REV
		ANGLES ± .1° 3 PL ± .005 [13] 3 PL ± .015 [30] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MAXIMUM DIA. .002 FIM MACHINE TOOL FINISH .003 MAX		RLSE	DATE	10499-501		A
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION 		SCALE		1:1	SHEET 1 OF 1	
APPLICATION								

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