

PRODUCT DATA SHEET

C11161

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: 0.01 - 1000 MHz
Power: 1000 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.45 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.30:1 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: 6.7 x 2.63 x 2.2"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C11161-20	7/16 Female	7/16 Female	N Female	N Female
C11161-41	SC Female	SC Female	N Female	N Female
C11161-43	SC Female	SC 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.

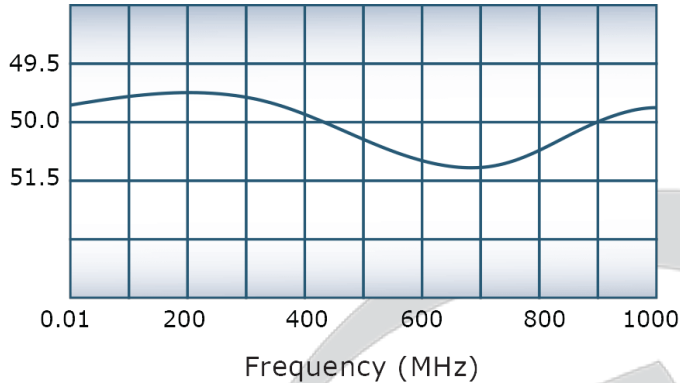


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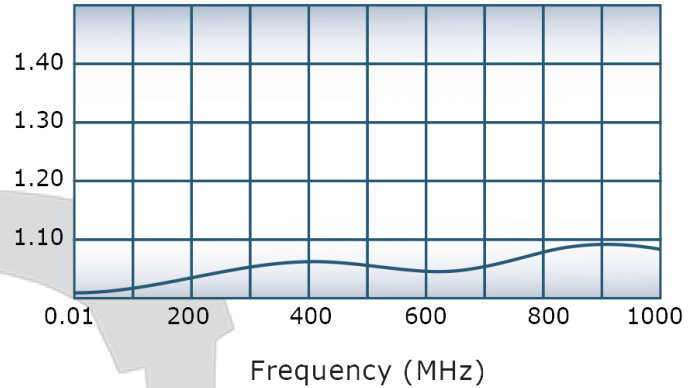
C11161

Performance Data (Specifications subject to change without notice):

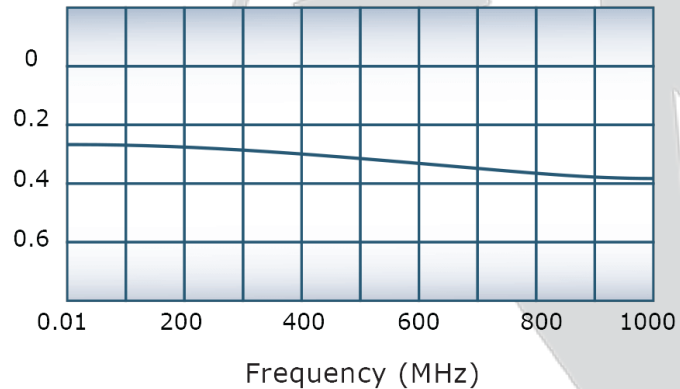
Coupling:



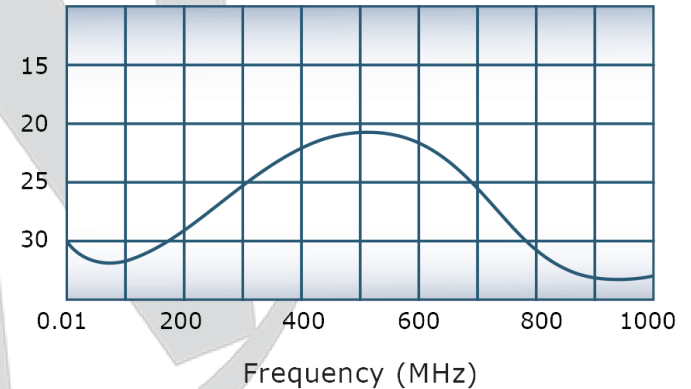
VSWR:



Insertion Loss:



Directivity:



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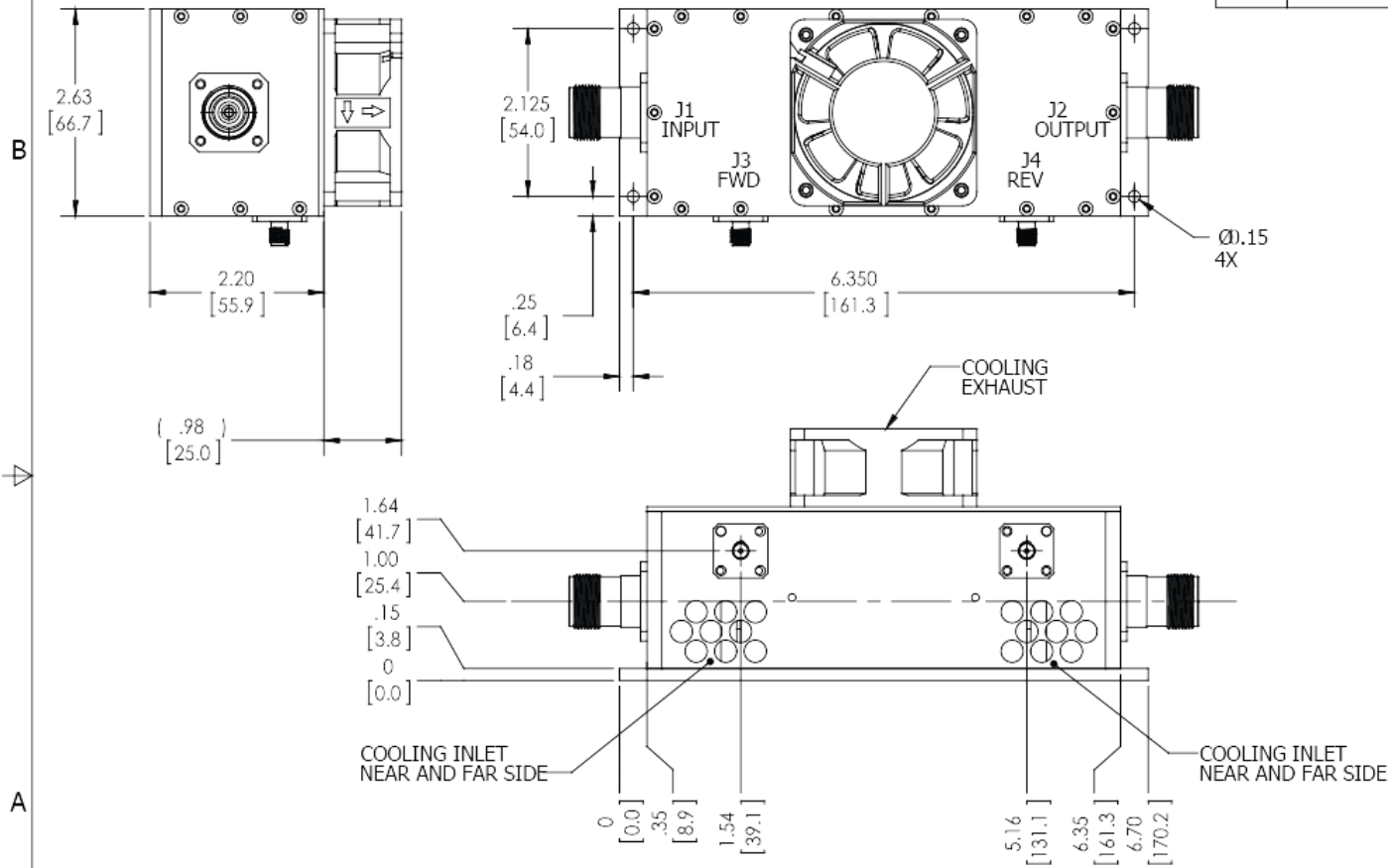
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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	6/20/2017	BW



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		• INTERPRET DRAWING (ANSI Y14.100-2009)		PLP	DATE				
		• DIMENSIONS PER ASME Y14.100-2009		CHK	DATE				
		• DIMENSIONS ARE IN INCHES (mm)		ENG	DATE				
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING							
		• TOLERANCES:							
		• ANGLES: ±.01							
		• 3 PL & .005 (1.2)							
		• 2 PL & .015 (1.4)							
		• REMOVE ALL BURS AND SHARP EDGES R.0.1 MAX							
		• CONCENTRICITY MACHINED DIA. .002 TYP							
		• MACHINE TOOL READABILITY: .003 MAX							
NEXT ASSY		USED ON				TITLE			
APPLICATION		THIRD ANGLE PROJECTION 				OUTLINE			
						SIZE		REV	
						B 28812 21531-500		-	
						SCALE			
						2:3		SHEET 1 OF 1	

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