Model C11161
Connectorized Directional Couplers

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.

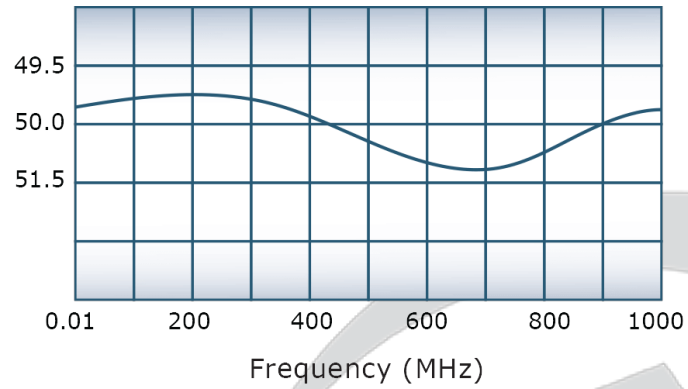
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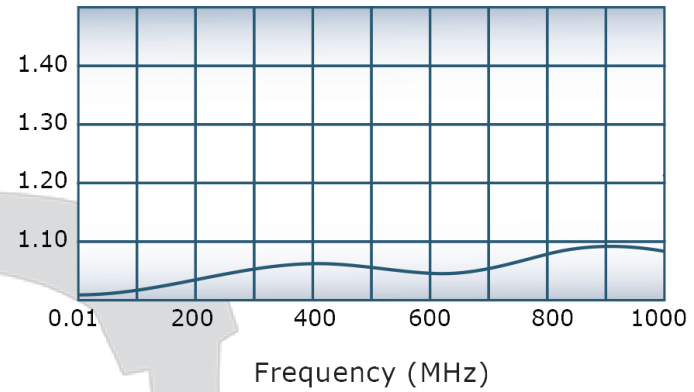
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Performance Data (Specifications subject to change without notice):

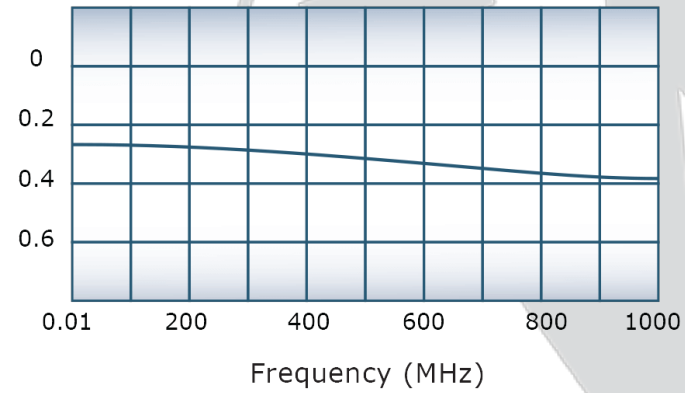
Coupling:



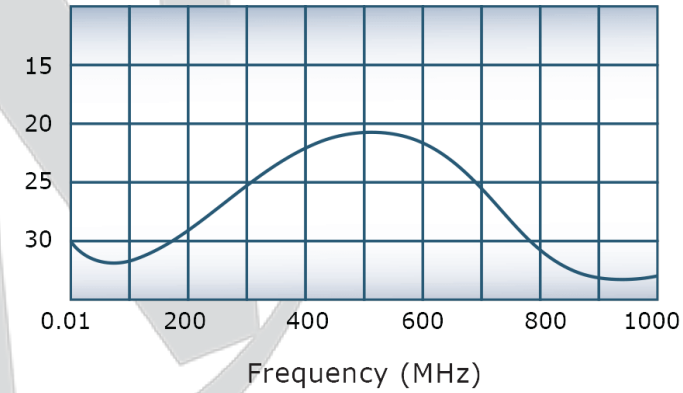
VSWR:



Insertion Loss:



Directivity:

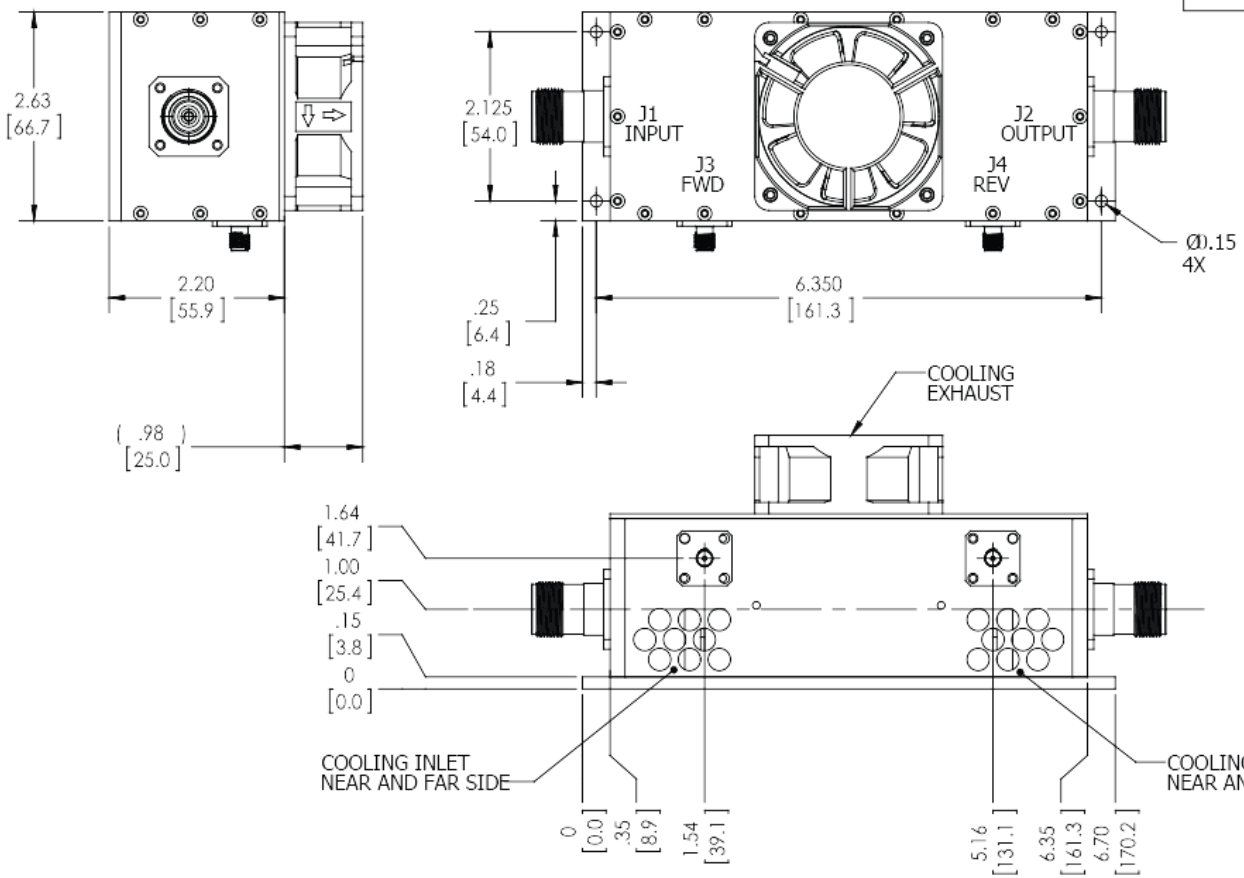


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	6/20/2017	BW



UNLESS OTHERWISE SPECIFIED	DWN	PLP	6/20/2017
• INTERPRET DRAWING IAW MIL-STD-100	CHK	BW	6/20/2017
• DIMENSIONING PER ASME Y14.5M-2009	ENGR		
• PARENTHETICAL INFO FOR REF ONLY	MFGR		
• DIMENSIONS ARE IN INCHES [mm]	QA		
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	RLSE		
• TOLERANCES: ANGLES ± 2° / 3 PL ± .005 [.13] / 2 PL ± .015 [.4]			
• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
• CONCENTRICITY MACHINED DIA .002 TIR			
• MACHINE TOOL MISMATCH .003 MAX			
NEXT ASSY / USED ON			
APPLICATION			
THIRD ANGLE PROJECTION			

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TITLE: OUTLINE

SIZE	CAGE CODE	DWG NO	REV
B	28812	21531-500	-

SCALE 2:3 — SHEET 1 OF 1

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