
PRODUCT DATA SHEET
C11146

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: 500 W CW
 Coupling: 43 ± 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.

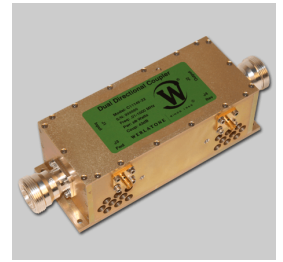
Mechanical Specifications:

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"

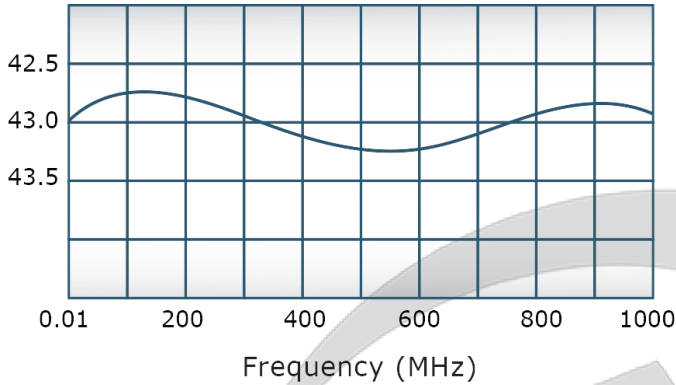
Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C11146-41	SC Female	SC Female	N Female	N Female
C11146-43	SC Female	SC Female	SMA	SMA

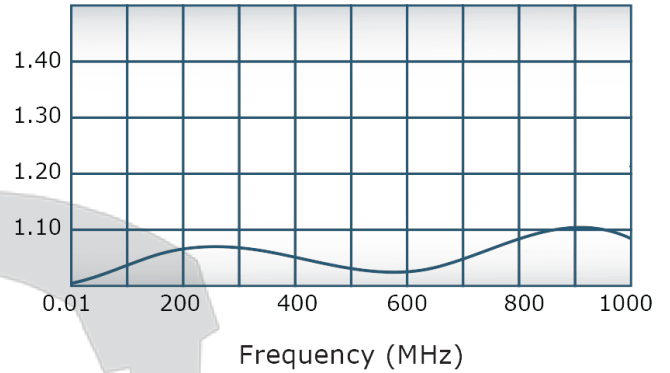
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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


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Performance Data (Specifications subject to change without notice):

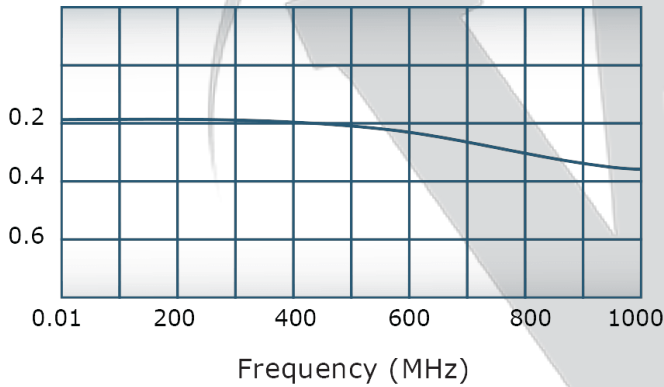
Coupling:



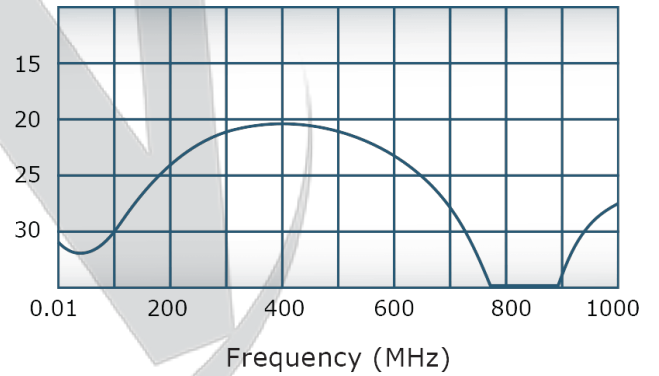
VSWR:



Insertion Loss:

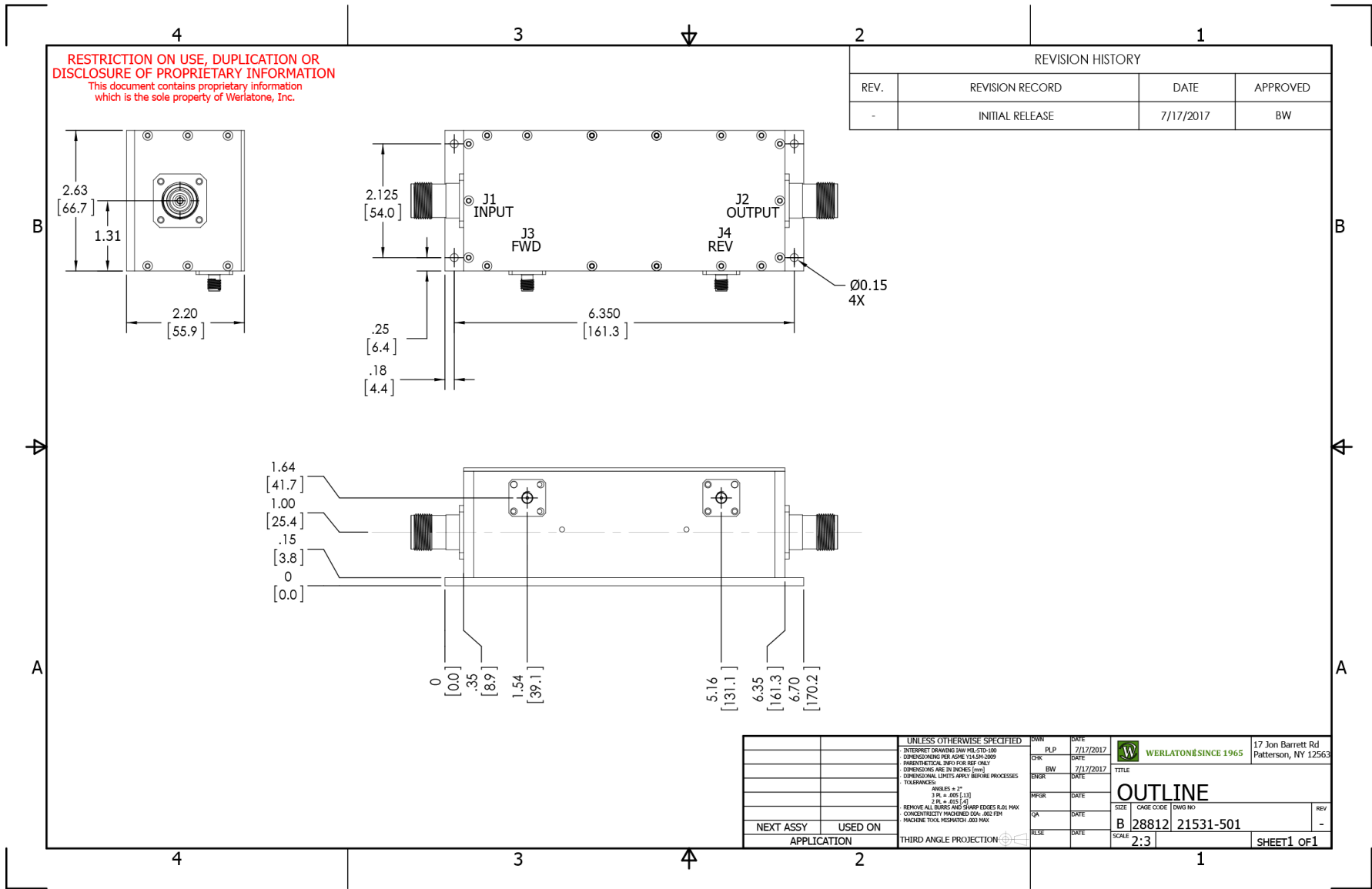


Directivity:



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UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONING PER ASME Y14.5M-2009 DIMENSIONS ARE IN INCHES (mm) DIMENSIONAL LINES APPLY BEFORE PROCESSES TOLERANCES: ANGLES ± 3° 3 PL ± .005 [13] 2 PL ± .015 [4] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY FRACTURED DIA. .002 FPM MACHINE TOOL MISMATCH .003 MAX		PLP	7/17/2017	
NEXT ASSY		CHK	DATE	OUTLINE SIZE CAGE CODE DWG NO B 28812 21531-501
USED ON		BW	7/17/2017	
APPLICATION		ENGR	DATE	REV
THIRD ANGLE PROJECTION		QA	DATE	-
		RELE	DATE	SCALE
				2:3
				SHEET 1 OF 1

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