
**PRODUCT DATA SHEET**
**C2306**

**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:      2 - 32 MHz  
 Power:          10,000 W CW  
 Coupling:        70 ± 1.0 dB Max.  
 Insertion Loss: 0.05 dB Max.  
 Flatness:        ± 0.5 dB Max.  
 VSWR (ML):    1.05:1 Max.  
 Directivity:     30 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" Line Section

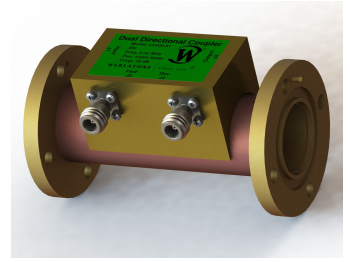
**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C2306-81	1 5/8" EIA	1 5/8" EIA	N Female	N Female
C2306-83	1 5/8" EIA	1 5/8" EIA	SMA	SMA
C2306-84	1 5/8" EIA	1 5/8" EIA	BNC	BNC

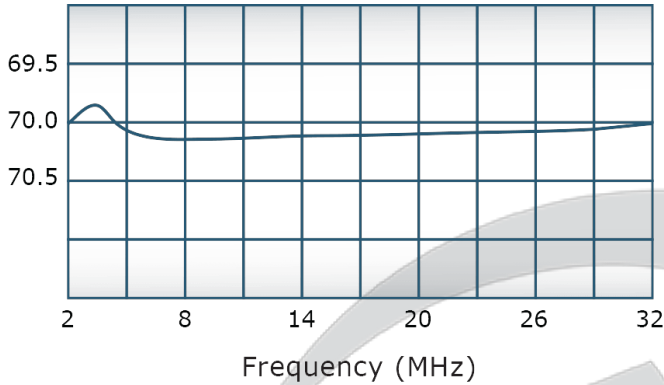
**Werlatone®** Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into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

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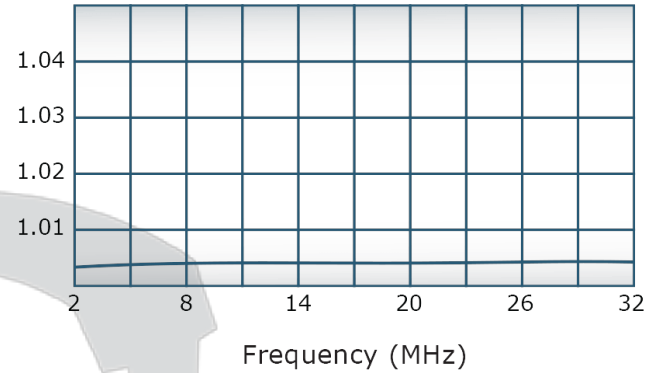
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com


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**Performance Data (Specifications subject to change without notice):**

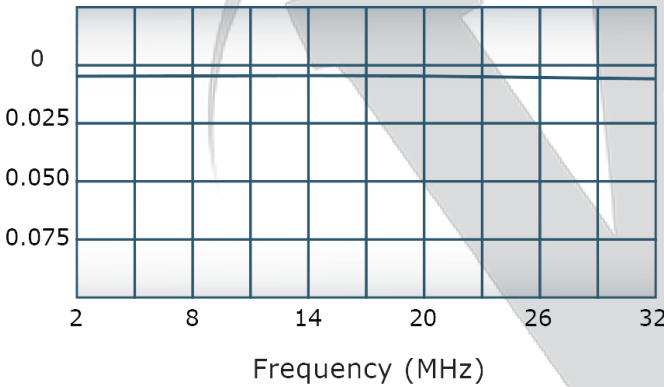
Coupling:



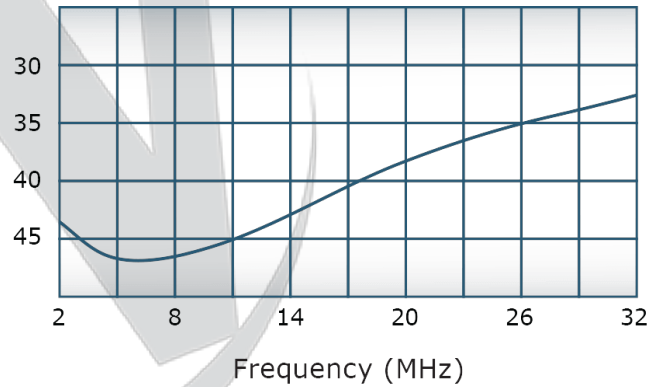
VSWR:



Insertion Loss:



Directivity:



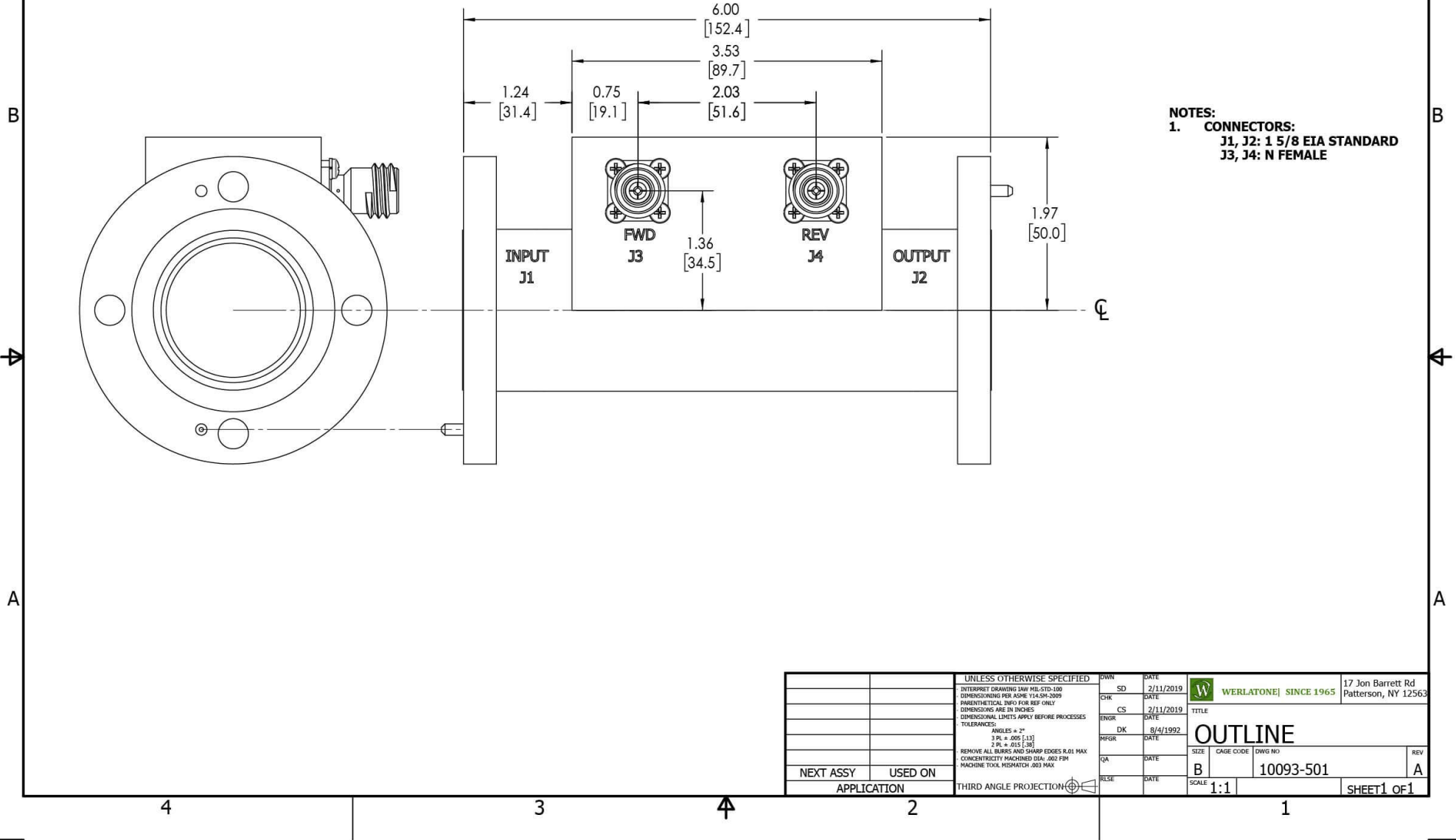
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/29/18	RB



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965 <table border="0"> <tr> <td colspan="2">17 Jon Barrett Rd</td> </tr> <tr> <td colspan="2">Patterson, NY 12563</td> </tr> </table>	17 Jon Barrett Rd		Patterson, NY 12563	
17 Jon Barrett Rd								
Patterson, NY 12563								
INTERPRET DRAWING IAW MIL-STD-100	SD	2/11/2019						
DIMENSIONS FOR ASME Y14.5M-2009	CHK	DATE						
PARENTHEetical INFO FOR REF ONLY	CS	2/11/2019	TITLE					
DIMENSIONS ARE IN INCHES	ENGR	DATE	<b>OUTLINE</b>					
DIMENSIONAL LINES APPLY BEFORE PROCESSES	DK	8/4/1992	SIZE					
TOLERANCES:	INFR	DATE	CAGE CODE					
ANGLES ± 2°	QA	DATE	DWG NO					
3 PL ± .005 [13]	RLSE	DATE	REV					
2 PL ± .015 [38]			B					
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			10093-501					
CONCENTRICITY MACHINED DIA: .002 FIM			A					
MACHINE TOOL MISMATCH .003 MAX.								
NEXT ASSY	USED ON		SCALE					
			1:1					
APPLICATION	THIRD ANGLE PROJECTION		SHEET 1 OF 1					

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