
**PRODUCT DATA SHEET**
**C6318**

**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:            1 - 50 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):         1.10:1 Max.  
 Directivity:           30 dB Min.

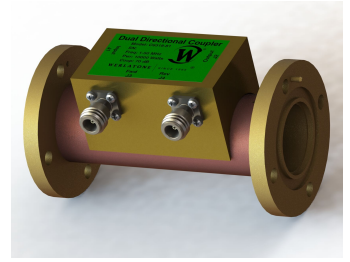
**Mechanical Specifications:**

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)
C6318-81	1 5/8" EIA	1 5/8" EIA	N Female	N Female
C6318-83	1 5/8" EIA	1 5/8" EIA	SMA	SMA
C6318-84	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.

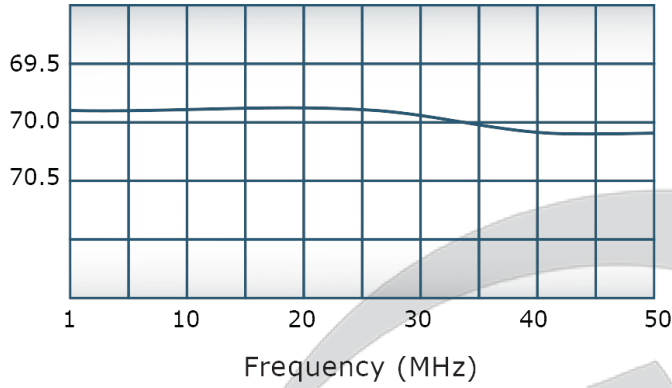


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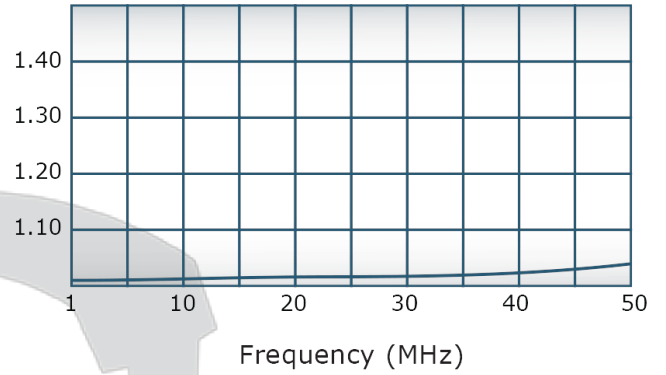
C6318

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

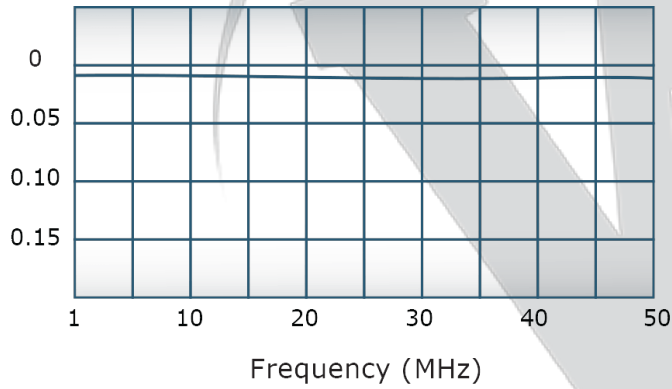
Coupling:



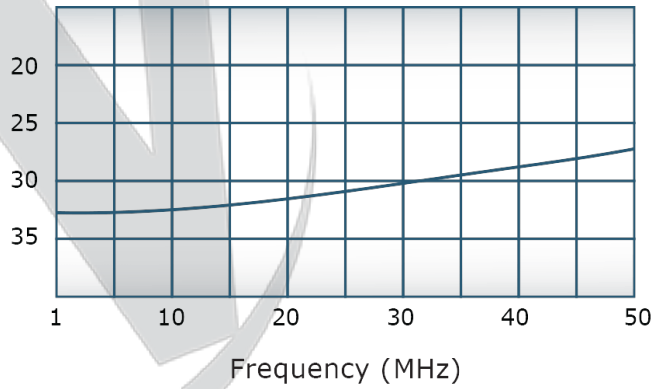
VSWR:



Insertion Loss:



Directivity:



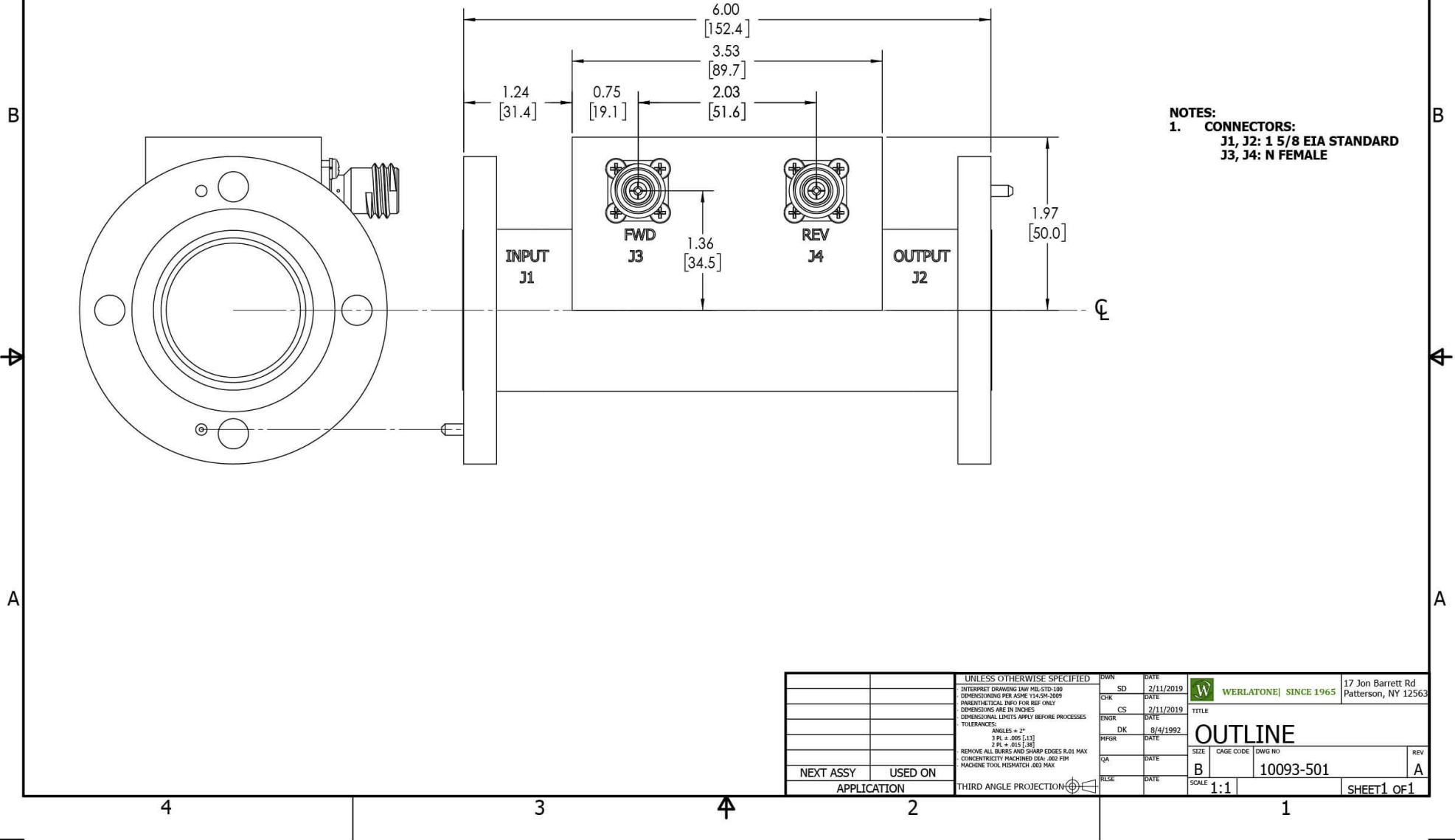
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Werlatone, Inc.

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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 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONING FOR ASME Y14.5M-2009 PARENTHETICAL INFO FOR REF ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE PROCESSES TOLERANCES:		SD	2/11/2019	
		CHK	DATE	TITLE
		CS	2/11/2019	
		ENGR	DATE	SIZE
		DK	8/4/1992	CAGE CODE
		INFR	DATE	DWG NO
		QA	DATE	REV
		RLSE	DATE	B
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		10093-501
APPLICATION		SCALE		A
		1:1		SHEET 1 OF 1

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