



## PRODUCT DATA SHEET

C2018

**3-Port Uni-Directional Coupler:** Consists of a main line and a coupled line. One end of the coupled line is internally terminated, while the other end serves as a coupled port. Ideal for sampling and monitoring power in one direction at a given time. It is necessary to physically reverse the orientation of the unit to change from a forward to a reverse power measurement

### Features:

High Power      Wide Bandwidths      Small Size      Flat Coupling      Custom Designs Available

### Electrical Specifications:

Frequency: 2 - 400 MHz  
Power: 200 W CW  
Coupling:  $40 \pm 1.0$  dB Max.  
Insertion Loss: 0.3 dB Max.  
Flatness:  $\pm 0.75$  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: 5.75 x 2.02 x 1.52"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)
C2018-10	N Female	N Female	N Female
C2018-12	N Female	N Female	SMA
C2018-13	N Female	N Female	BNC
C2018-102	SMA	SMA	SMA

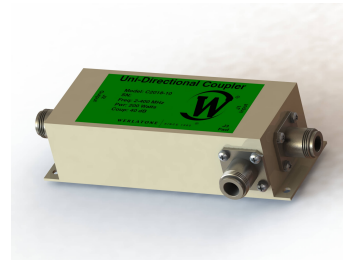
**Werlatone®** Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into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



# WERLATONE

Model C2018

Connectorized Directional Couplers

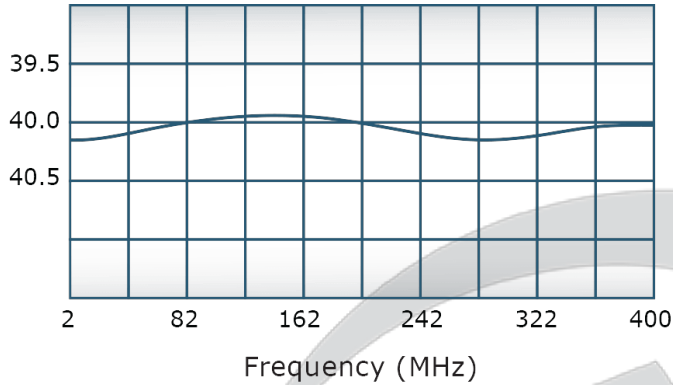


## PRODUCT DATA SHEET

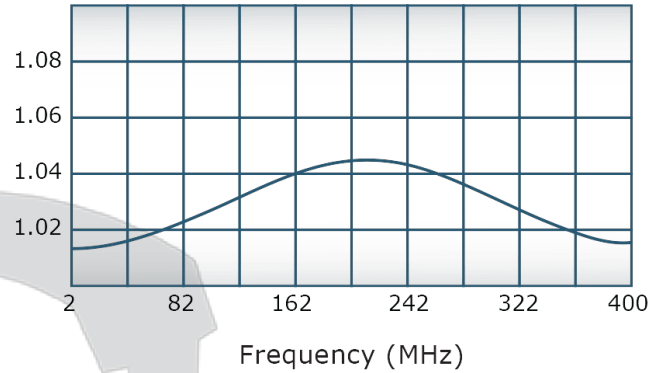
C2018

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

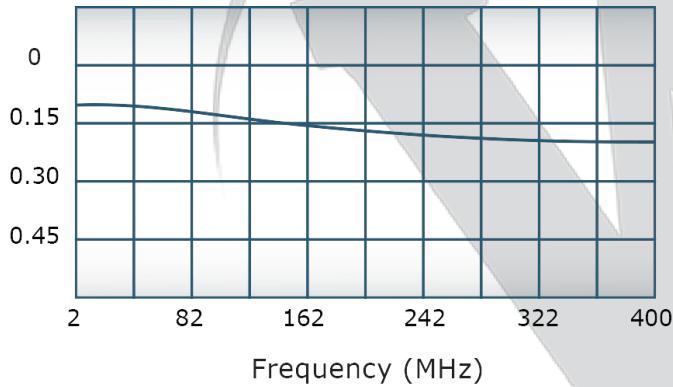
Coupling:



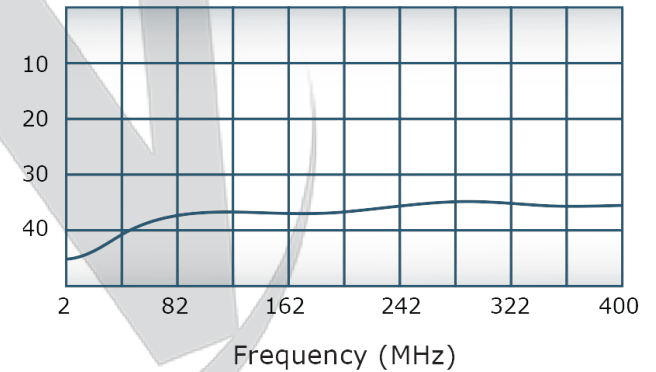
VSWR:



Insertion Loss:



Directivity:



**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of Werlatone, Inc.

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

**RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION**

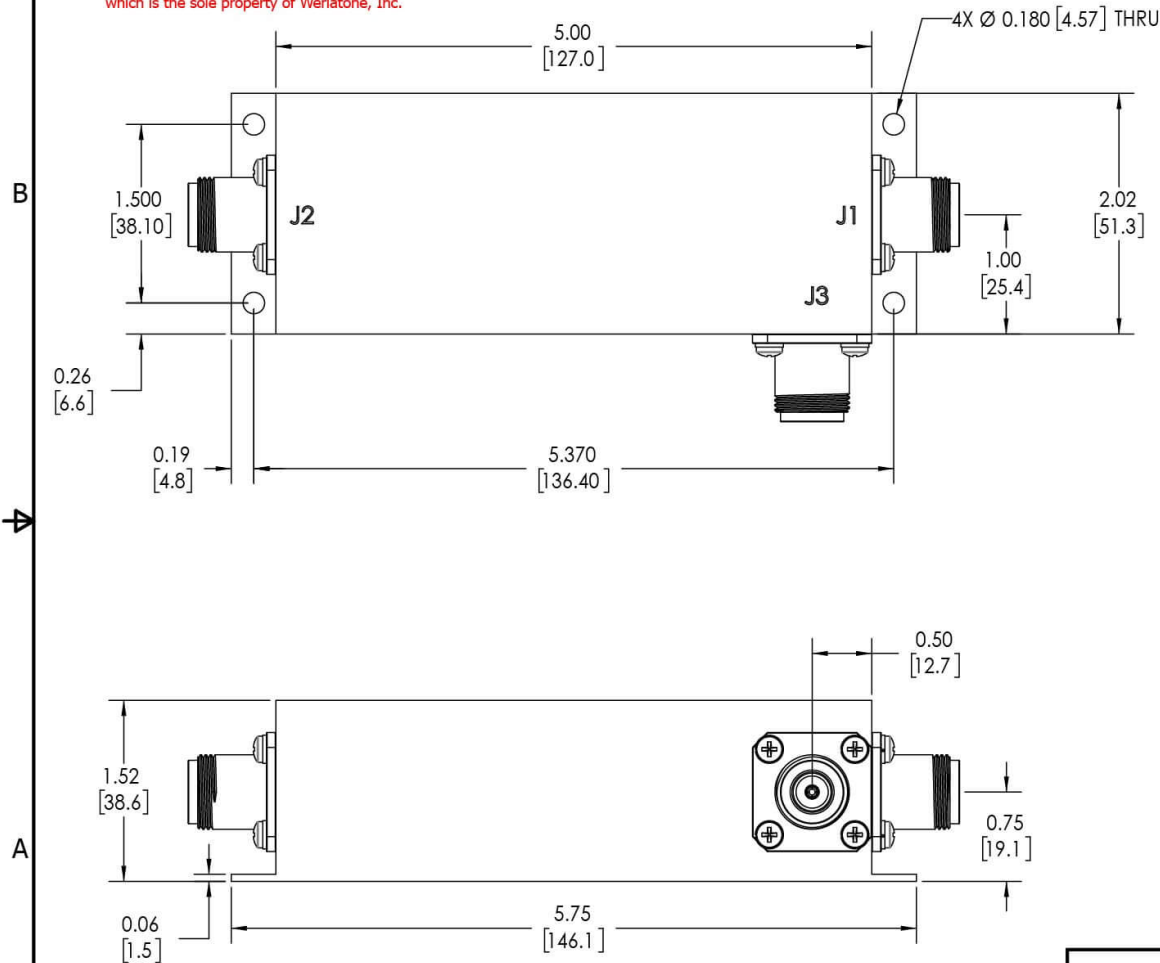
This document contains proprietary information which is the sole property of Werlatone, Inc.


**REVISION HISTORY**

REV.	REVISION RECORD	DATE	APPROVED
A	CONN.	2/1/1986	DK
B	ECN 1040	6/12/1988	DK
C	ECN 1071	8/7/1989	MJ
D	ECN 9696	5/15/2019	RB

**NOTES: UNLESS OTHERWISE SPECIFIED**

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:  
J1-J3: N FEMALE**



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 <div>WERLATONE  SINCE 1965</div>	17 Jon Barrett Rd Patterson, NY 12563		
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	5/14/2019				
		DIMENSIONS FOR ASME Y14.5M-2009		CHK	DATE				
		PARENTHESES FOR REF ONLY		CS	5/14/2019		TITLE		
		DIMENSIONS ARE IN INCHES		ENGR	DATE				
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	OUTLINE			
		TOLERANCES:		QA	DATE				
		ANGLES ± 2°		RLSE	DATE				
		3 PL ± .005 [13]				SIZE	CAGE CODE	DWG NO	REV
		2 PL ± .015 [38]				B		10064-500	D
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				SCALE			
		CONCENTRICITY MACHINED DIA. .002 FIM				1:1			
		MACHINE TOOL MISMATCH .003 MAX							
NEXT ASSY		USED ON		THIRD ANGLE PROJECTION				SHEET 1 OF 1	
APPLICATION									

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.  
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com