



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 ± 1.0 dB Max.
Insertion Loss: 0.3 dB Max.
Flatness: ± 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

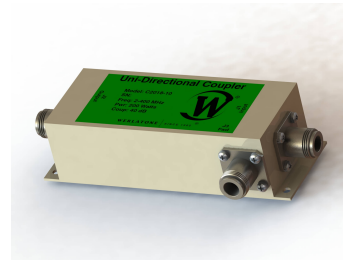
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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



WERLATONE

Model C2018

Connectorized Directional Couplers

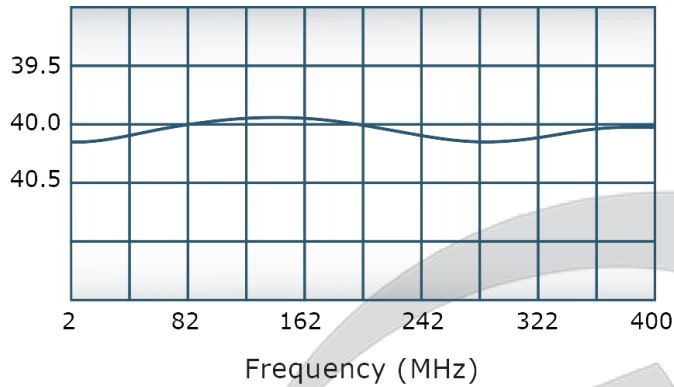


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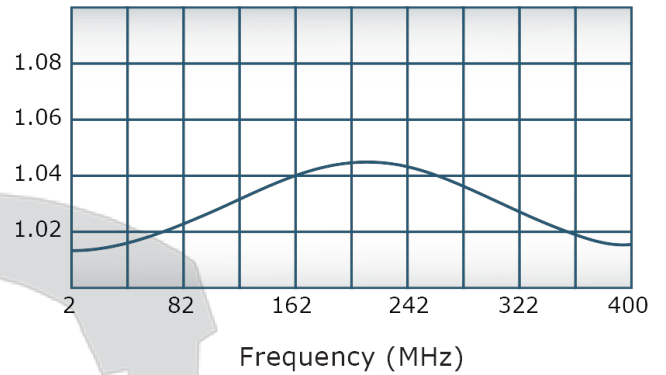
C2018

Performance Data (Specifications subject to change without notice):

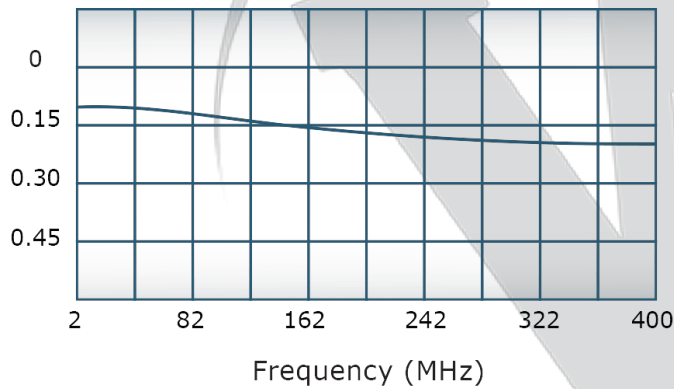
Coupling:



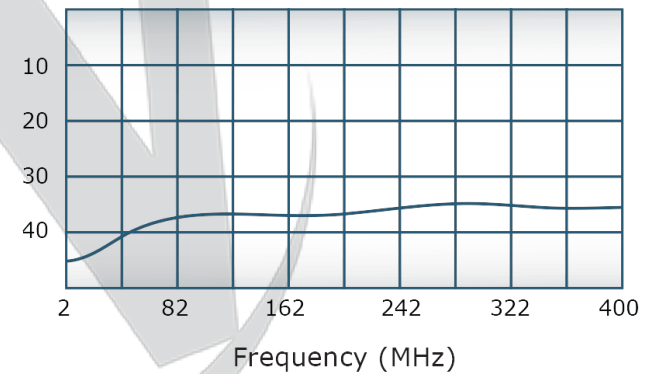
VSWR:



Insertion Loss:



Directivity:

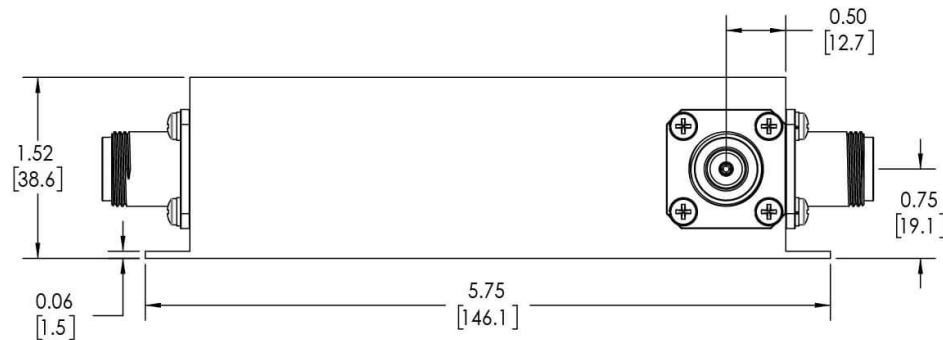
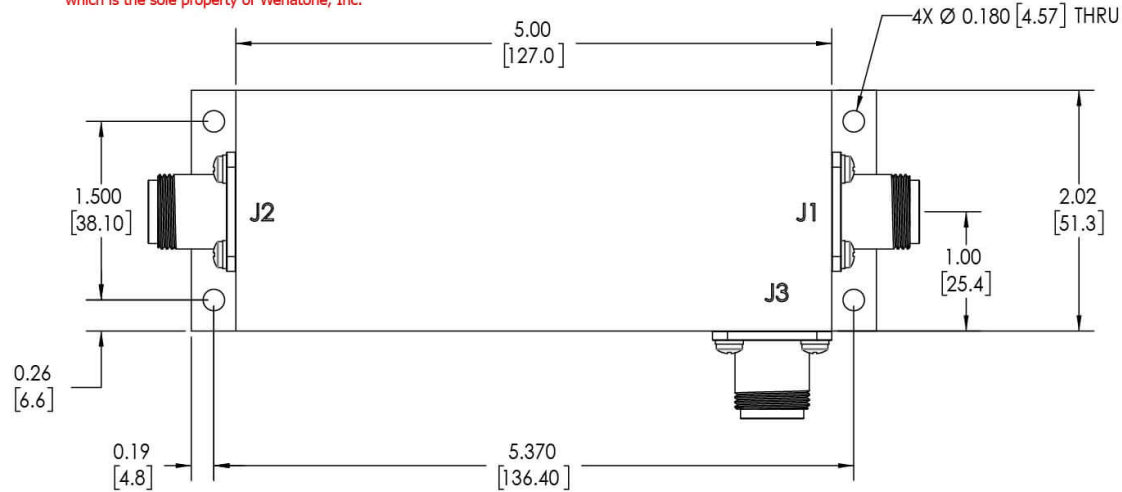


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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	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	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	5/14/2019	WERLATONE SINCE 1965	
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	SIZE CAGE CODE DWG NO	
3 PL ± .005 [13]					
2 PL ± .015 [38]				B 10064-500	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
CONCENTRICITY MACHINED DIA. .002 FIM				REV D	
MACHINE TOOL MISMATCH .003 MAX					
THIRD ANGLE PROJECTION				SCALE 1:1	
APPLICATION					
NEXT ASSY USED ON				SHEET 1 OF 1	

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