



## PRODUCT DATA SHEET

C7008

**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: 20 - 180 MHz  
 Power: 100 W CW  
 Coupling: 10 ± 1.0 dB Max.  
 Insertion Loss: 1.0 dB Max.  
 Flatness: ± 0.5 dB Max.  
 VSWR (ML): 1.25:1 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: 5.0 x 2.0 x 1.5"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C7008-10	N Female	N Female	N Female	N Female
C7008-12	N Female	N Female	SMA	SMA
C7008-13	N Female	N Female	BNC	BNC
C7008-102	SMA	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 C7008

Connectorized Directional Couplers

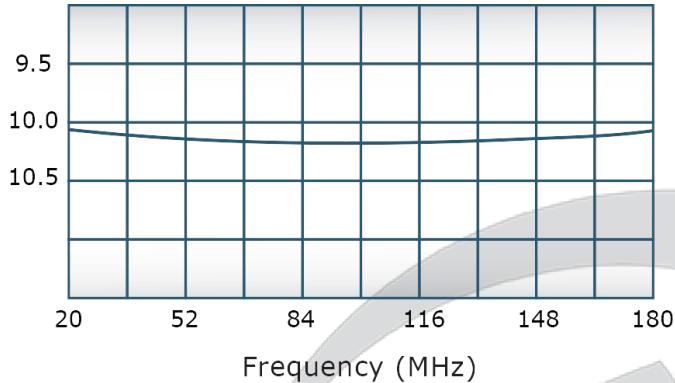


## PRODUCT DATA SHEET

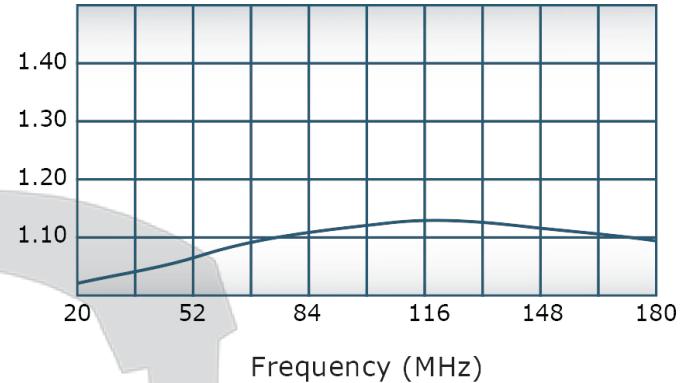
C7008

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

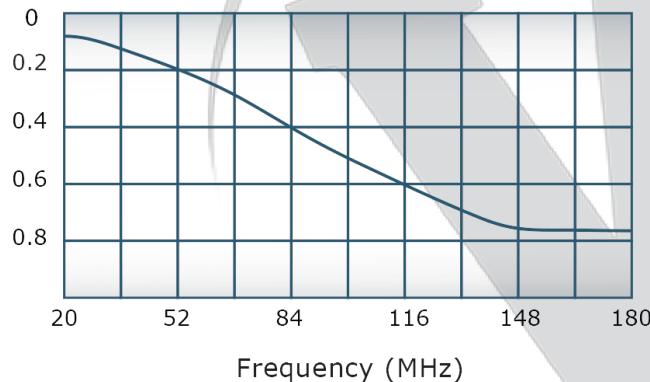
Coupling:



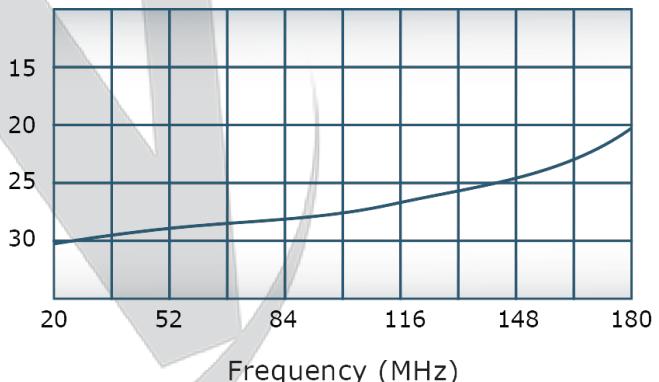
VSWR:



Insertion Loss:



Directivity:



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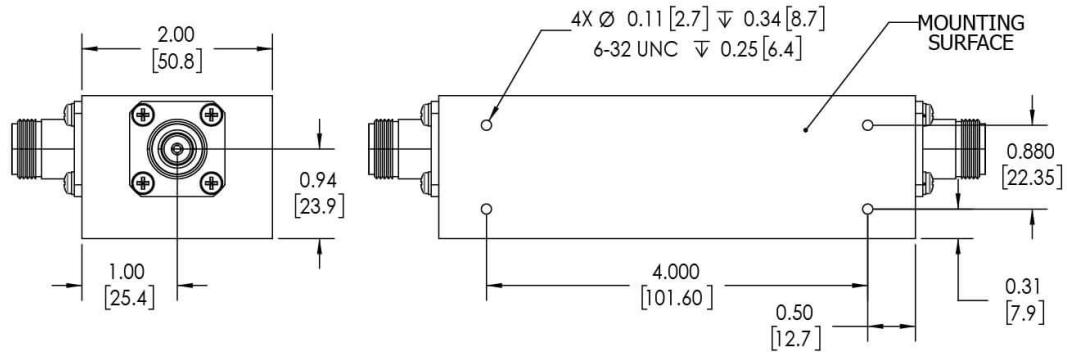
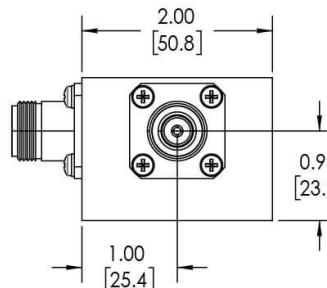
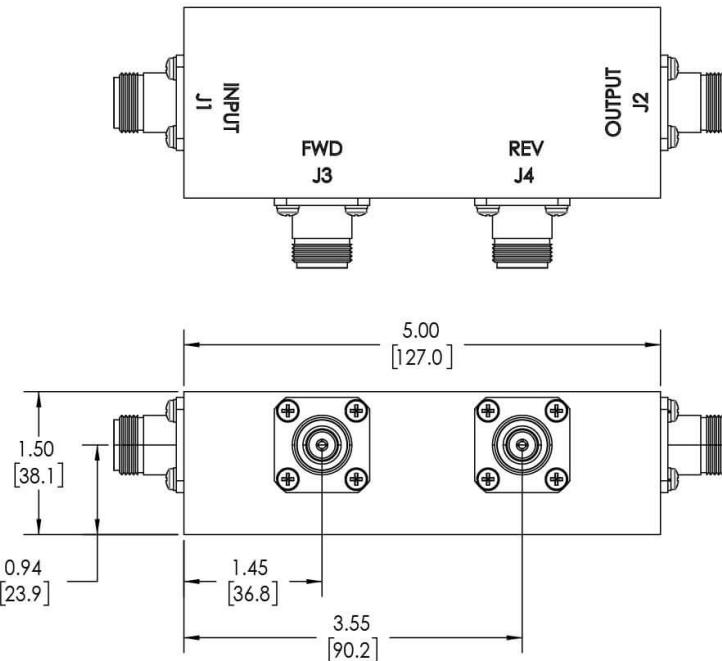
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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	6/12/2019	RB

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**NOTES: UNLESS OTHERWISE SPECIFIED**

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:  
J1-J4: N FEMALE

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UNLESS OTHERWISE SPECIFIED	DN	DATE	17 Jon Barrett Rd
INTERPRET DRAWING JAW MIL-STD-100	SD	6/12/2019	WERLATONE SINCE 1965
UNIFORM DRAWING ASME Y14.5M-2009	CHK	DATE	Patterson, NY 12563
PARENTHETICAL TOLERANCE FOR REFERENCE ONLY	CS	6/12/2019	
DIMENSIONAL LIMITS ARE IN INCHES	ENGR	DATE	
TOLERANCES	MFGR	DATE	
ANGLES $\pm 2^\circ$	QA	DATE	
3 RL $\pm .005$ [1.27]	ILSE	DATE	
2 RL $\pm .012$ [3.05]	APPLICATION	SCALE	REV
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	THIRD ANGLE PROJECTION	1:1.25	A
CONCENTRICITY MACHINED DIA. .002 FIM			
MACHINE TOOL MISMATCH .003 MAX			
NEXT ASSY	USED ON	SIZE	SHEET 1 OF 1
		CAGE CODE	
		DWG NO	

**OUTLINE**

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