

## PRODUCT DATA SHEET

C8217

**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: 60 - 600 MHz  
 Power: 200 W CW  
 Coupling:  $6 \pm 1.0$  dB Max.  
 Insertion Loss: 0.35 dB Max.  
 Flatness:  $\pm 1.0$  dB Max.  
 VSWR (ML): 1.20:1 Max.  
 Directivity: 20 dB Min.

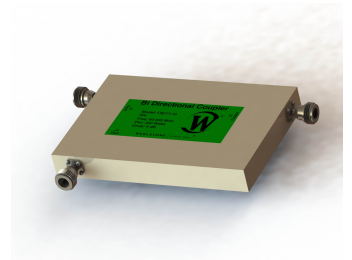
### Mechanical Specifications:

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: 6.0 x 4.0 x 0.75"

### Port Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)
C8217-10	N Female	N Female	N Female
C8217-12	N Female	N Female	SMA
C8217-102	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.

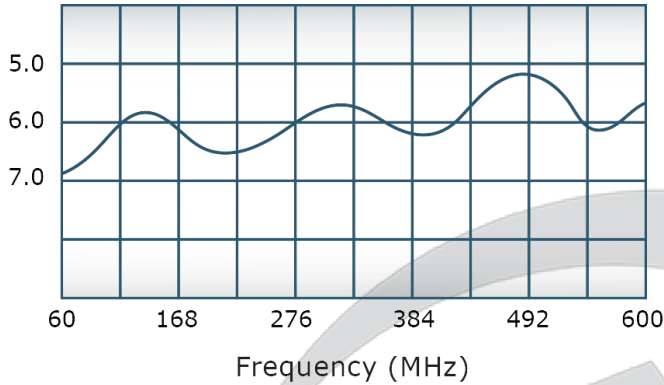


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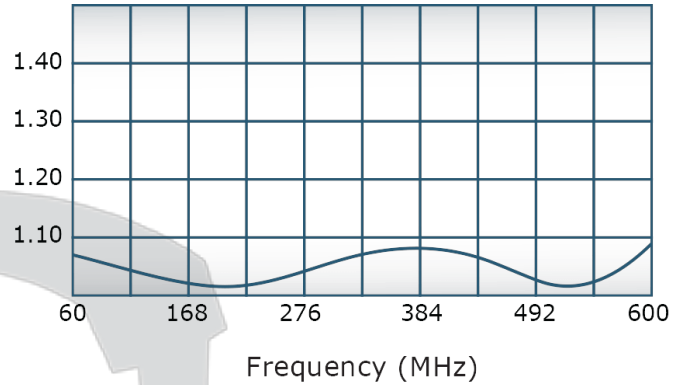
C8217

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

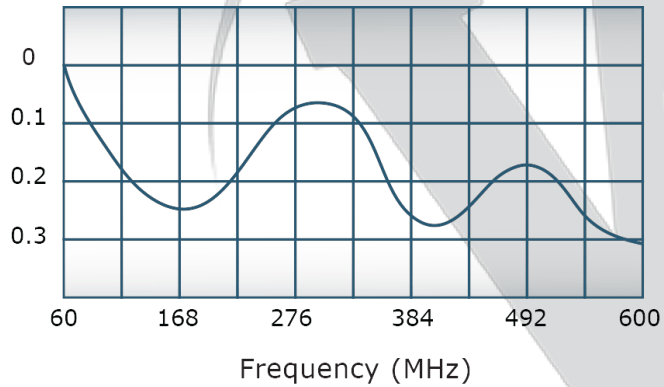
Coupling:



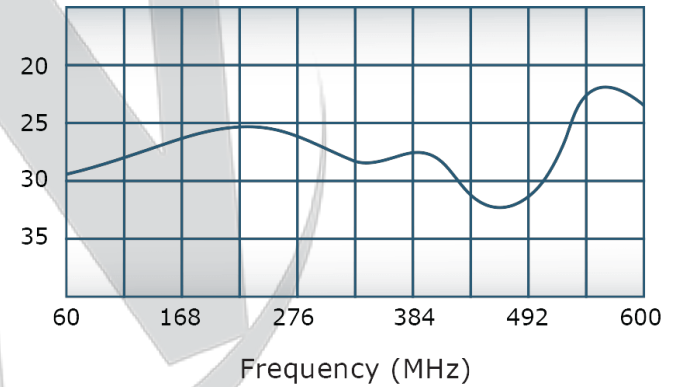
VSWR:



Insertion Loss:



Directivity:

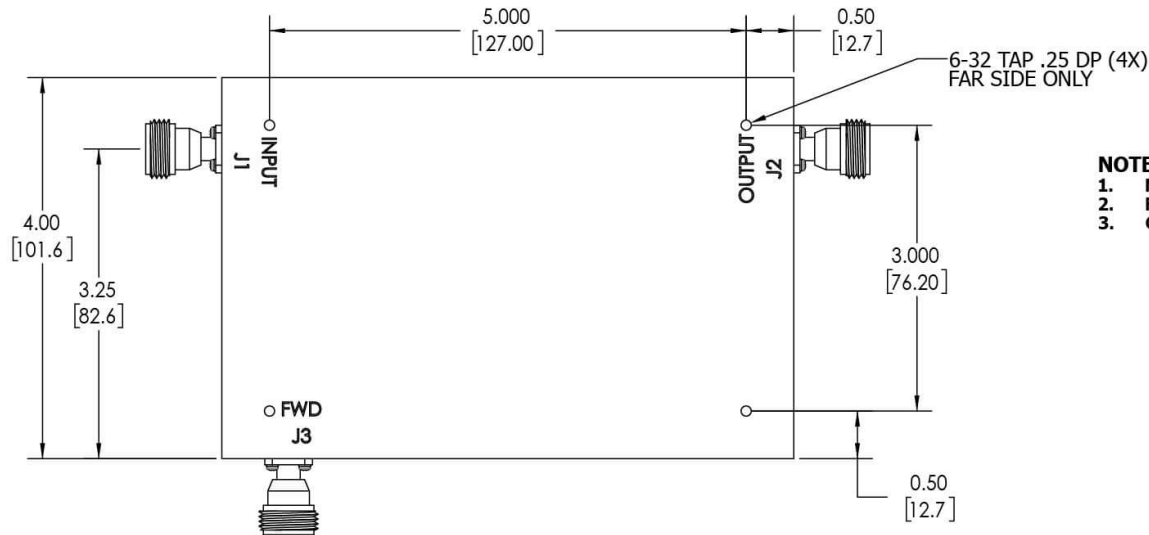


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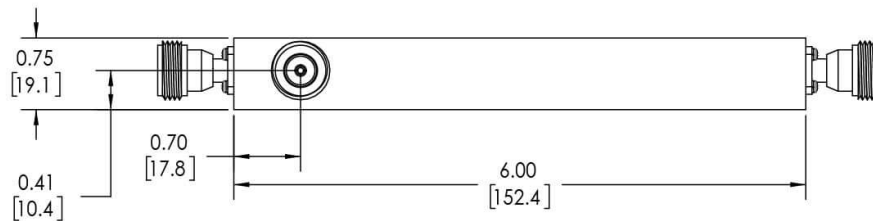
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	6/12/2019	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		SD	DATE	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IAW MIL-STD-100		CHK	DATE	 <b>WERLATONE</b> SINCE 1965	
DIMENSIONS FOR ASME Y14.5M-2009		CS	DATE		
PARENTHESES FOR REF ONLY		ENGR	DATE	<b>OUTLINE</b>	
DIMENSIONS ARE IN INCHES		INFR	DATE		
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		QA	DATE	SIZE CAGE CODE DWG NO <b>B 10941-501</b>	
TOLERANCES:		RLSE	DATE		
ANGLES ± 2° 3 PL ± .005 [13] 2 PL ± .015 [38] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA. .002 FIM MACHINE TOOL MISMATCH .003 MAX		THIRD ANGLE PROJECTION		SCALE: <b>1:1.25</b>	
NEXT ASSY USED ON		APPLICATION		SHEET 1 OF 1	

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