

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 ± 1.0 dB Max.
 Insertion Loss: 0.35 dB Max.
 Flatness: ± 1.0 dB Max.
 VSWR (ML): 1.20:1 Max.
 Directivity: 20 dB Min.

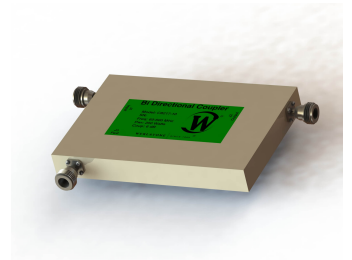
Mechanical Specifications:

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.

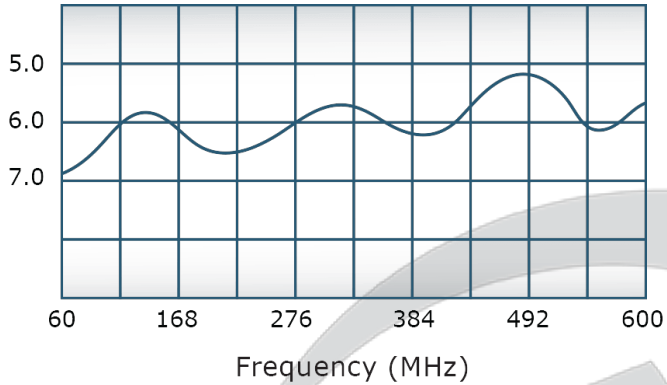


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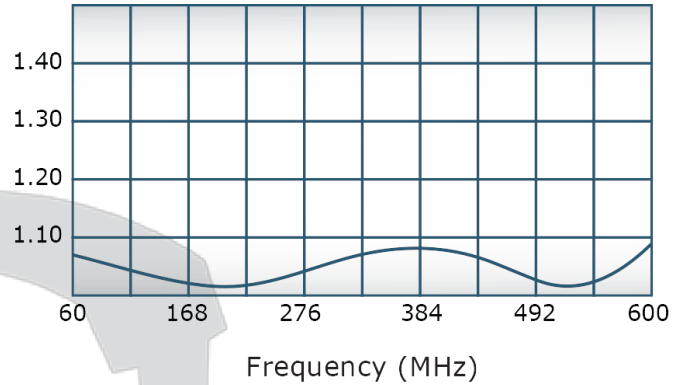
C8217

Performance Data (Specifications subject to change without notice):

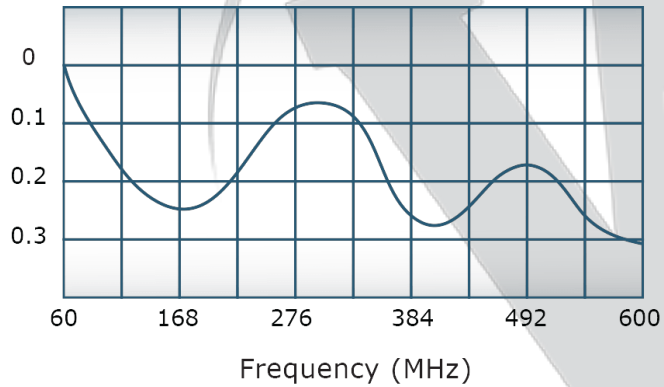
Coupling:



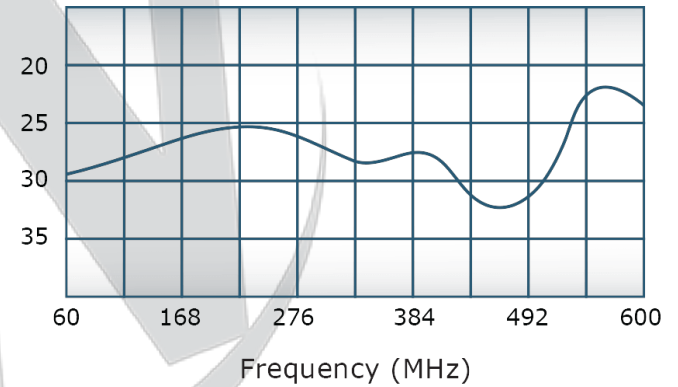
VSWR:



Insertion Loss:



Directivity:

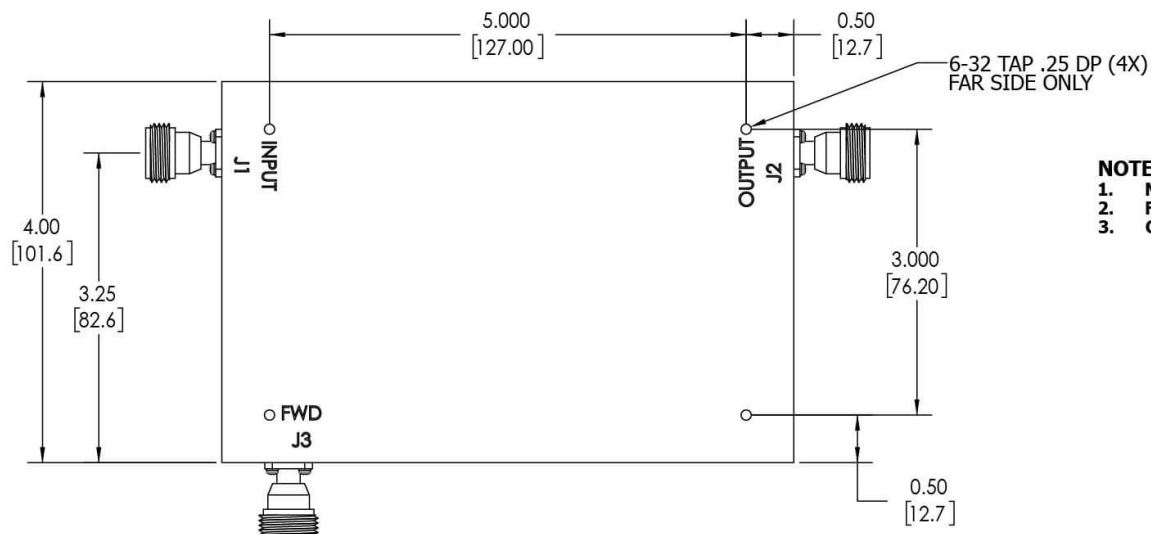


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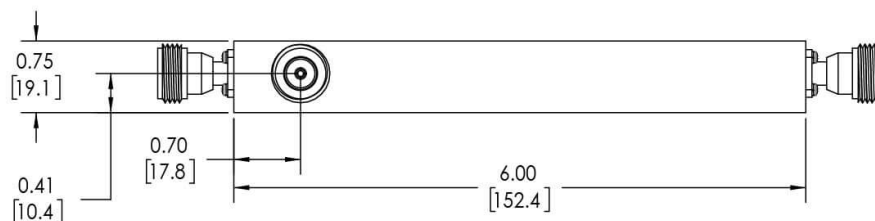
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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



NOTES: UNLESS OTHERWISE SPECIFIED
 1. MATERIAL: ALUMINUM 6061-T6
 2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
 3. CONNECTORS:
 J1-J3: N FEMALE



UNLESS OTHERWISE SPECIFIED		DATE	6/12/2019
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	DATE	6/12/2019	
DIMENSIONS FOR ASSEMBLY	DATE	6/12/2019	
PARENTHESES FOR REFERENCE ONLY	DATE	6/12/2019	
DIMENSIONS ARE IN INCHES	DATE	6/12/2019	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	DATE	6/12/2019	
TOLERANCES:	DATE	6/12/2019	
ANGLES ± 2°	DATE	6/12/2019	
3 PL ± .005 [13]	DATE	6/12/2019	
2 PL ± .015 [38]	DATE	6/12/2019	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	DATE	6/12/2019	
CONCENTRICITY MACHINED DIA. .002 FIM	DATE	6/12/2019	
MACHINE TOOL MISMATCH .003 MAX	DATE	6/12/2019	
THIRD ANGLE PROJECTION	DATE	6/12/2019	
NEXT ASSY	USED ON	DATE	6/12/2019
APPLICATION	DATE	6/12/2019	

W	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
TITLE	OUTLINE	REV
SIZE	CAGE CODE	DWG NO
B	10941-501	A
SCALE	1:1.25	SHEET 1 OF 1

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