



PRODUCT DATA SHEET

C6217

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:	13 - 14 MHz
Power:	3000 W CW
Coupling:	50 ± 1.0 dB Max.
Insertion Loss:	0.05 dB Max.
Flatness:	± 0.5 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:	6.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6217-10	N Female	N Female	N Female	N Female
C6217-12	N Female	N Female	SMA	SMA
C6217-13	N Female	N Female	BNC	BNC

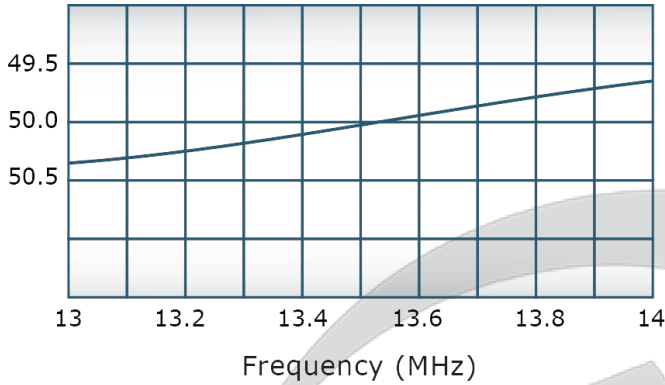
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a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

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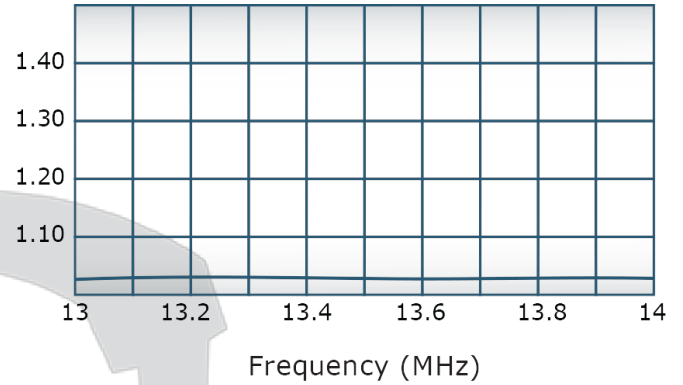
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

Performance Data (Specifications subject to change without notice):

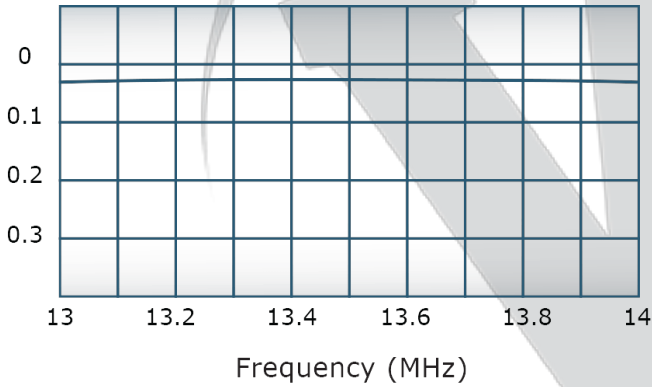
Coupling:



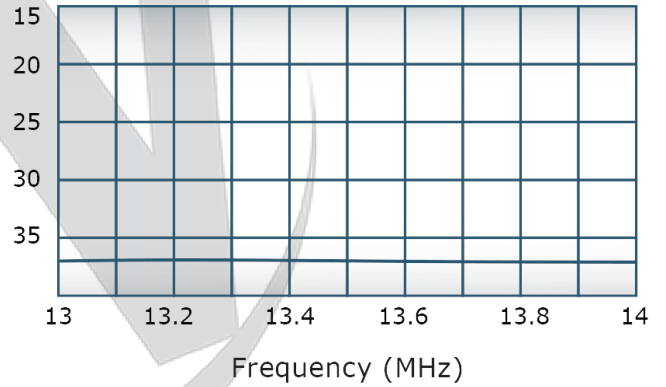
VSWR:



Insertion Loss:

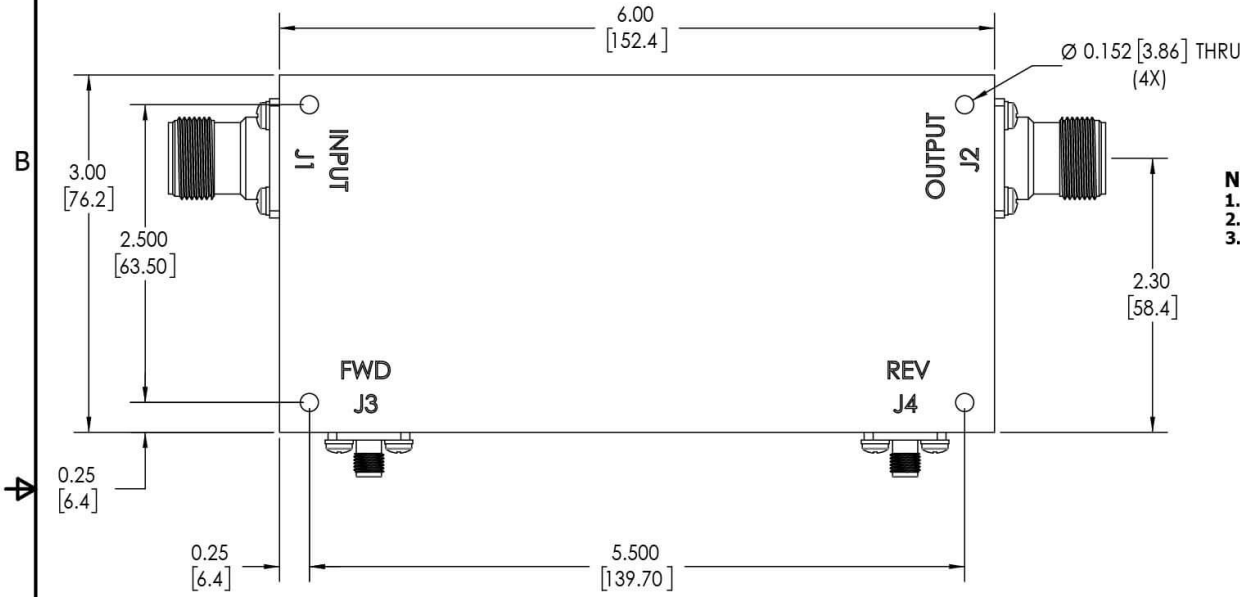


Directivity:



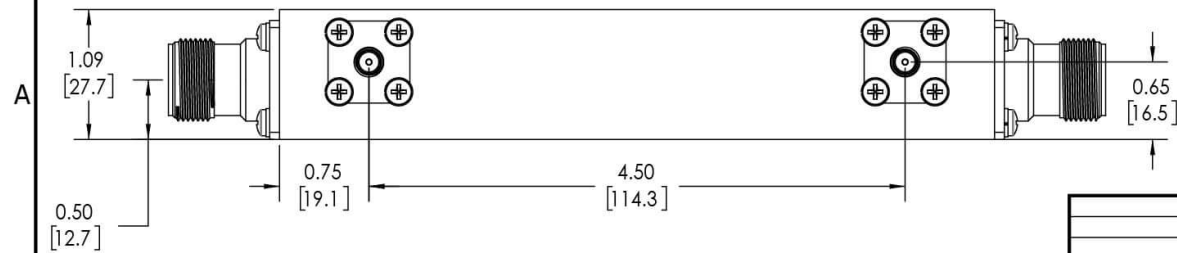
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	6/12/2019	RB



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:**
 J1-J2: SC FEMALE
 J3-J4: SMA FEMALE



UNLESS OTHERWISE SPECIFIED		DWN	DATE	 WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	SD	6/12/2019		
DIMENSIONS FOR ASME Y14.5M-2009	CHK	DATE		TITLE
PARENTHESES INFO FOR REF ONLY	CS	6/12/2019		OUTLINE
DIMENSIONS ARE IN INCHES	ENGR	DATE		SIZE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE		CAGE CODE
TOLERANCES:	QA	DATE		DWG NO
ANGLES ± 2°	RLSE	DATE		REV
3 PL ± .005 [13]				B
2 PL ± .015 [38]				10499-501
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				A
CONCENTRICITY MACHINED DIA: .002 FIM				
MACHINE TOOL MISMATCH .003 MAX.				
NEXT ASSY	USED ON	APPLICATION		SCALE
		THIRD ANGLE PROJECTION		1:1
				SHEET 1 OF 1

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