



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.

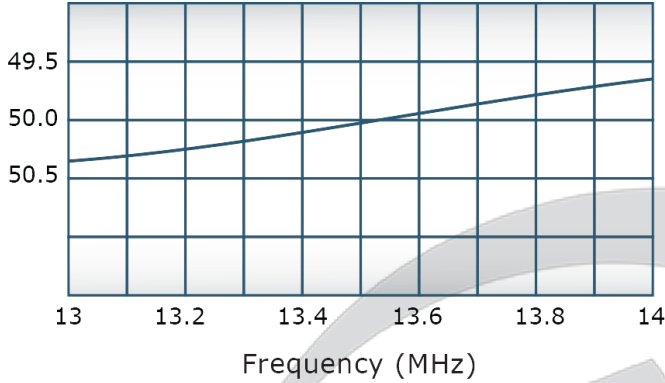
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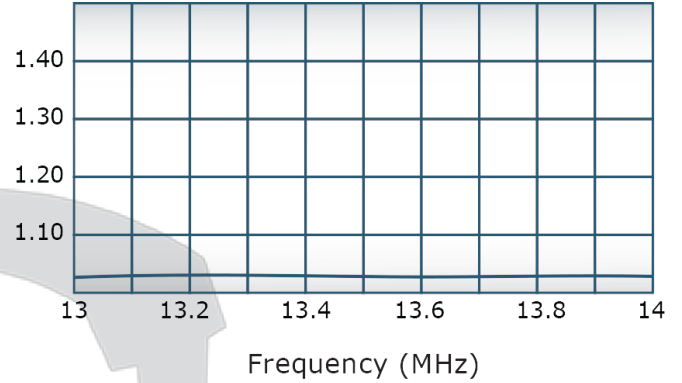


Performance Data (Specifications subject to change without notice):

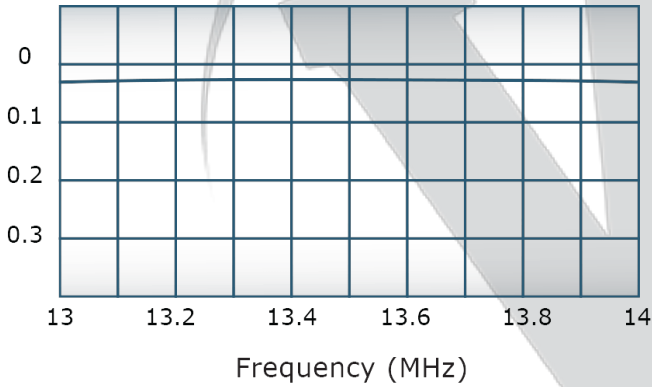
Coupling:



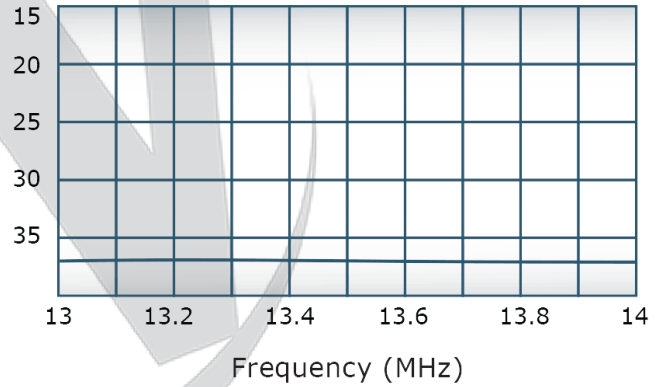
VSWR:



Insertion Loss:



Directivity:



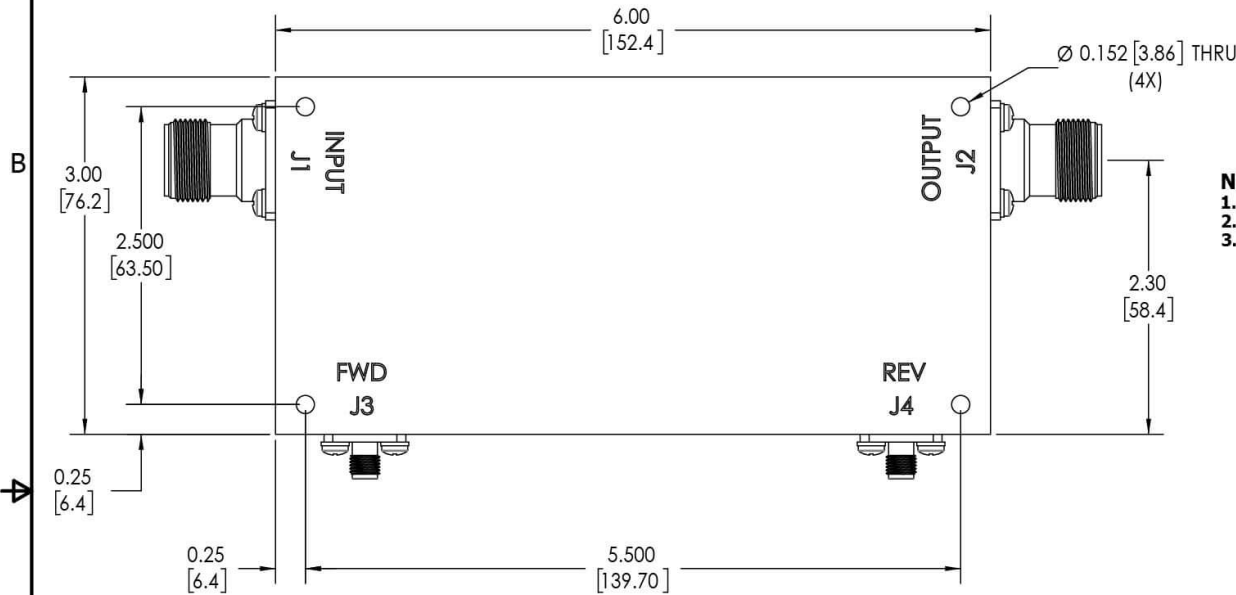
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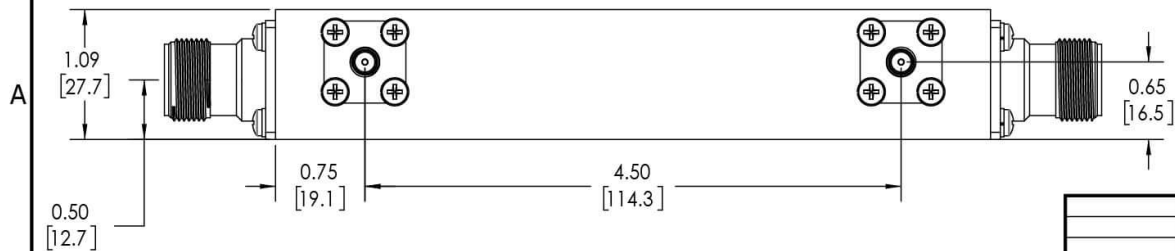
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	6/12/2019	RB



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			
			INTERPRET DRAWING IAW MIL-STD-100	SD	6/12/2019			
			DIMENSIONS FOR ASME Y14.5M-2009	CHK	DATE			
			PARENTHESES INFO FOR REF ONLY	CS	6/12/2019			
			DIMENSIONS ARE IN INCHES	ENGR	DATE			
			DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE			
			TOLERANCES:	QA	DATE			
			ANGLES ± 2°	RLSE	DATE			
			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					
NEXT ASSY	USED ON	APPLICATION	THIRD ANGLE PROJECTION	SCALE		TITLE		REV
				1:1		OUTLINE		A
						SIZE CAGE CODE DWG NO		
						B 10499-501		
						SHEET 1 OF 1		

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