


PRODUCT DATA SHEET
C5827

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: 10 - 100 MHz
Power: 3000 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.1 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.15:1 Max.
Directivity: 25 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: 3.75 x 3.0 x 1.88"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5827-10	N Female	N Female	N Female	N Female
C5827-12	N Female	N Female	SMA	SMA
C5827-13	N Female	N Female	BNC	BNC
C5827-20	7/16 Female	7/16 Female	N Female	N Female
C5827-22	7/16 Female	7/16 Female	SMA	SMA
C5827-43	SC Female	SC Female	SMA	SMA
C5827-61*	HN Female	HN Female	N Female	N Female
C5827-63*	HN Female	HN Female	SMA	SMA
C5827-751*	HN Female	HN Male	BNC	BNC

*Some options are 3.75 x 3.0 x 1.87"

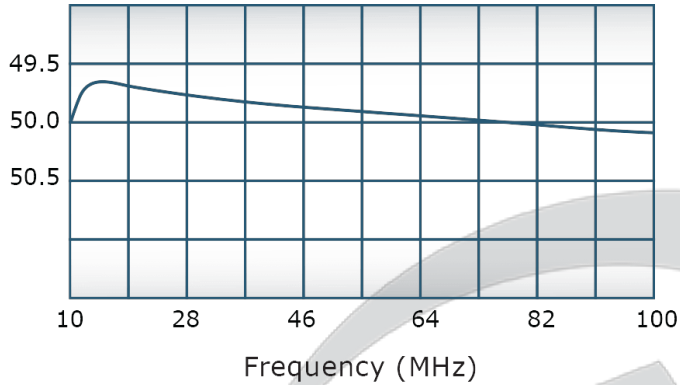


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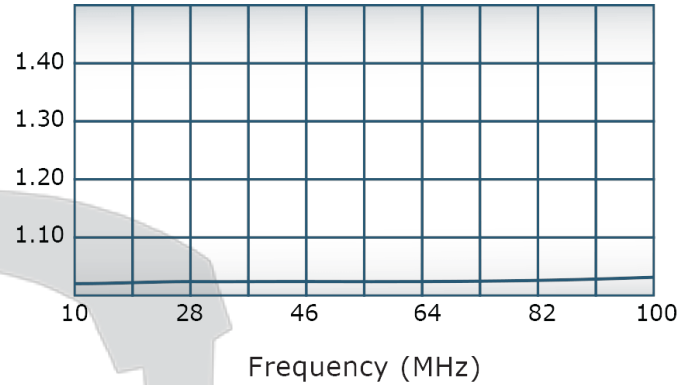
C5827

Performance Data (Specifications subject to change without notice):

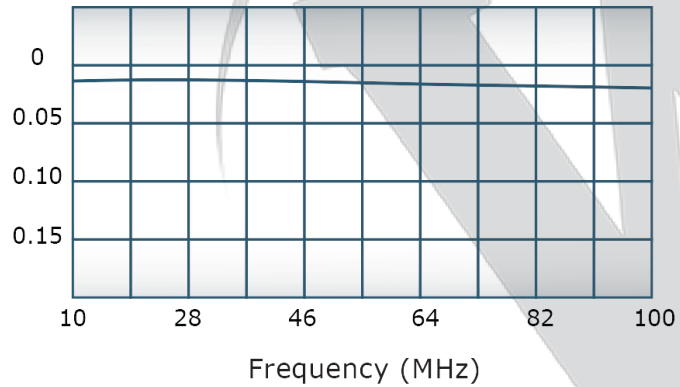
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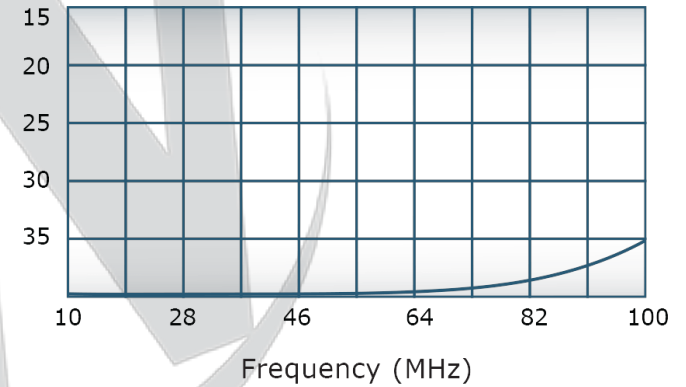
VSWR:



Insertion Loss:



Directivity:



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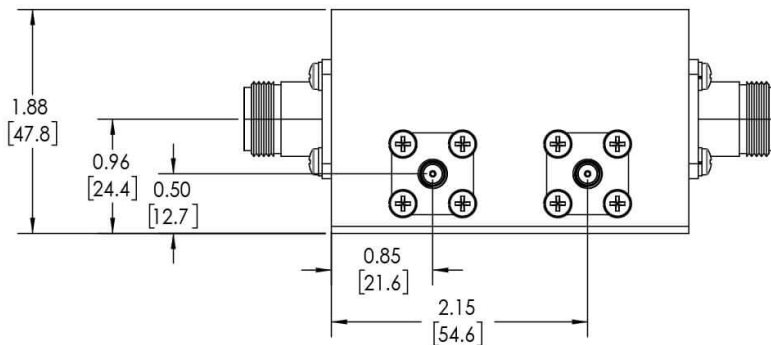
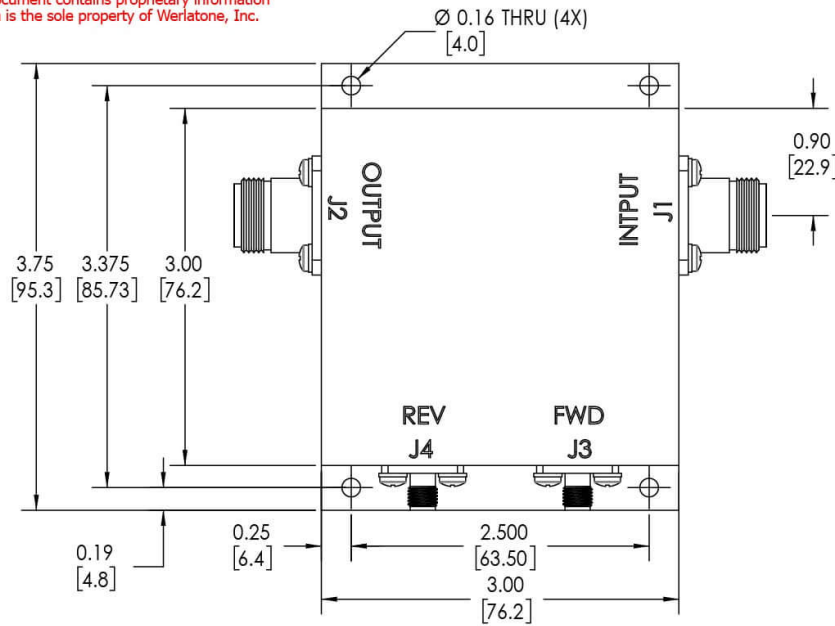
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/29/18	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: N FEMALE
J3, J4: SMA FEMALE



		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	2/11/2019	TITLE		OUTLINE	
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE				
		PARENTHESES INFO FOR REF ONLY		CS	2/11/2019	SIZE CAGE CODE DWG NO		REV	
		DIMENSIONS ARE IN INCHES		ENGR	DATE				
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	SCALE		10031-500	
		TOLERANCES:		QA	DATE				
		ANGLES ± 2°		RLSE	DATE	1:1		SHEET 1 OF 1	
		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		THIRD ANGLE PROJECTION 					
APPLICATION									

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