


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"

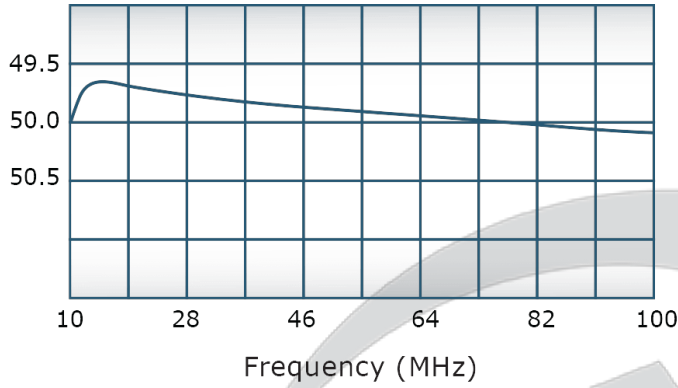


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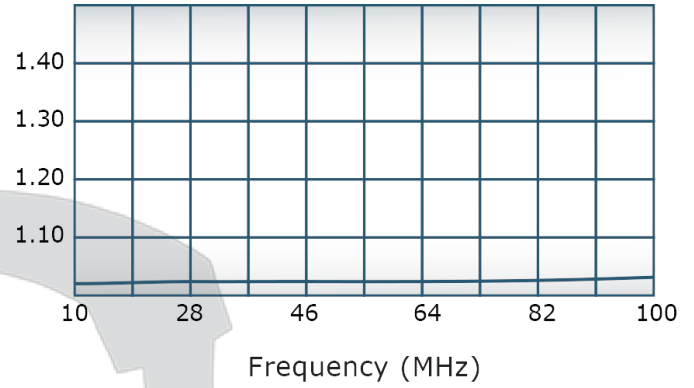
C5827

Performance Data (Specifications subject to change without notice):

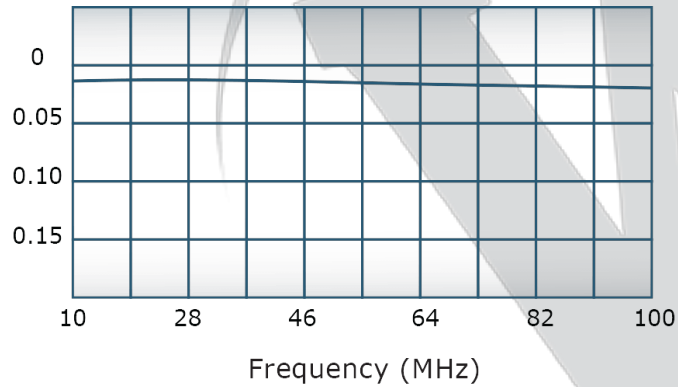
Coupling:



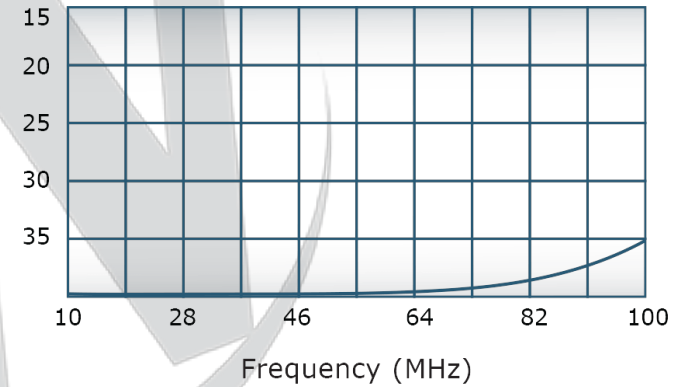
VSWR:



Insertion Loss:



Directivity:



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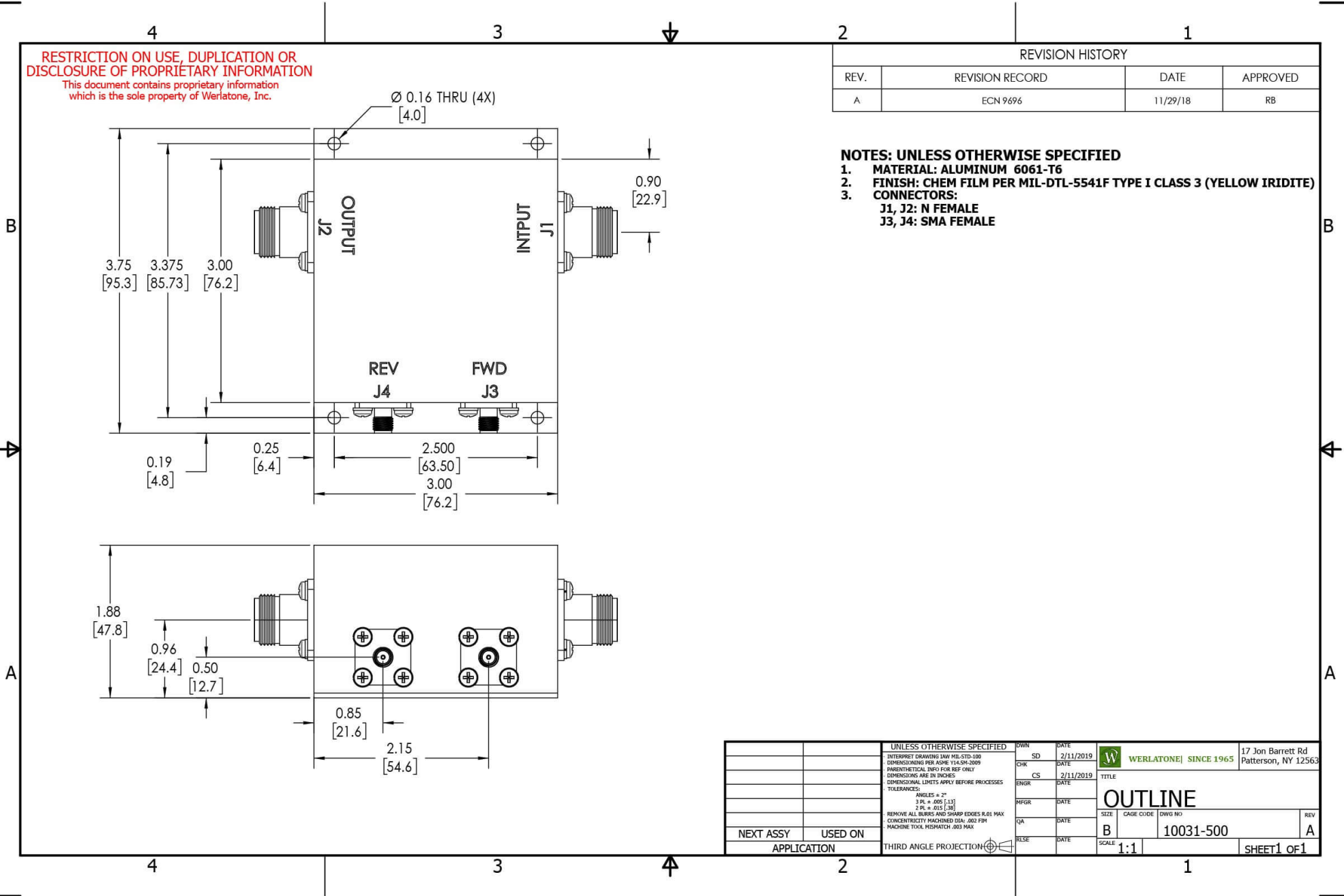
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REVISION HISTORY

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		DWN	DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100	SD	2/11/2019	DATE	
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE	DATE	
PARENTHEetical INFO FOR REF ONLY	CS	2/11/2019	DATE	
DIMENSIONS ARE IN INCHES	ENGR	DATE	DATE	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE	DATE	
TOLERANCES:	QA	DATE	DATE	
ANGLES = 2°	RLSE	DATE	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 1:1
				10031-500
				SHEET 1 OF 1

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