

## PRODUCT DATA SHEET

C2800

**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: 0.5 - 32 MHz  
Power: 5000 W CW  
Coupling: 50 ± 1.0 dB Max.  
Insertion Loss: 0.05 dB Max.  
Flatness: ± 0.5 dB Max.  
VSWR (ML): 1.15:1 Max.  
Directivity: 20 dB Min.

### Mechanical Specifications:

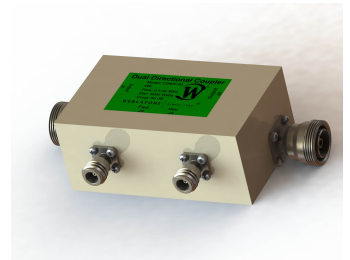
Type: Connectorized  
Material: Aluminum 6061-T6  
Surface Finish: Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite)  
RoHS Compliant Available  
Operating Temperature: -55°C to +75°C  
Storage Temperature: -60°C to +85°C  
Humidity: 95% Non-Condensing  
Size: 5.0 x 3.0 x 2.24"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C2800-10	N Female	N Female	N Female	N Female
C2800-12	N Female	N Female	SMA	SMA
C2800-13	N Female	N Female	BNC	BNC
C2800-20	7/16 Female	7/16 Female	N Female	N Female
C2800-22	7/16 Female	7/16 Female	SMA	SMA
C2800-23	7/16 Female	7/16 Female	BNC	BNC
C2800-30	LC Female	LC Female	N Female	N Female
C2800-61	HN Female	HN Female	N Female	N Female
C2800-63	HN Female	HN Female	SMA	SMA
C2800-64	HN Female	HN Female	BNC	BNC
C2800-QC-0	QC Block	QC Block	N Female	N Female
C2800-QC-2	QC Block	QC Block	SMA	SMA

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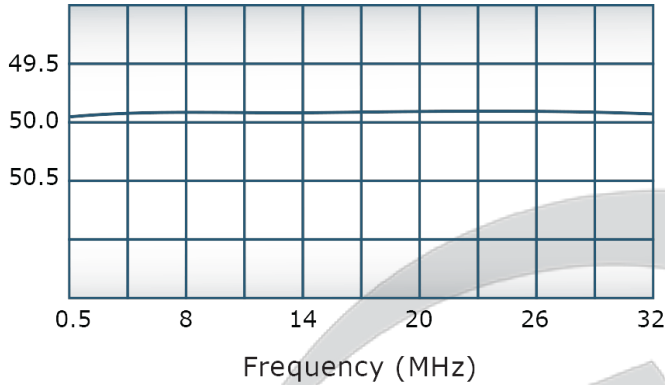


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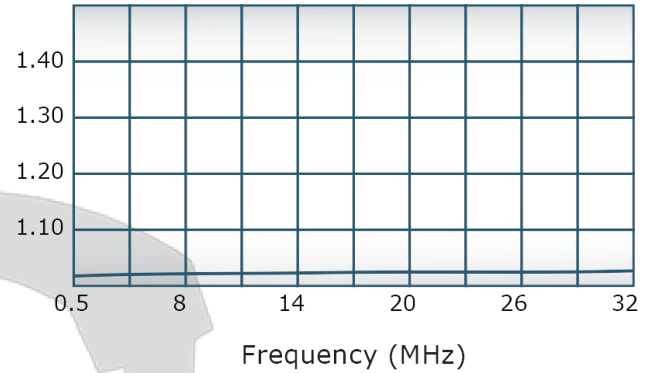
C2800

### Performance Data (Specifications subject to change without notice):

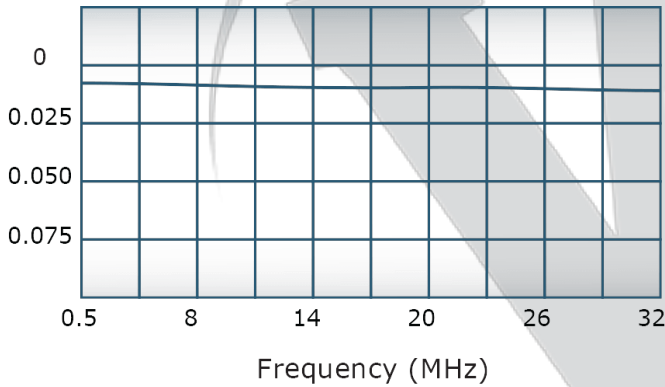
Coupling:



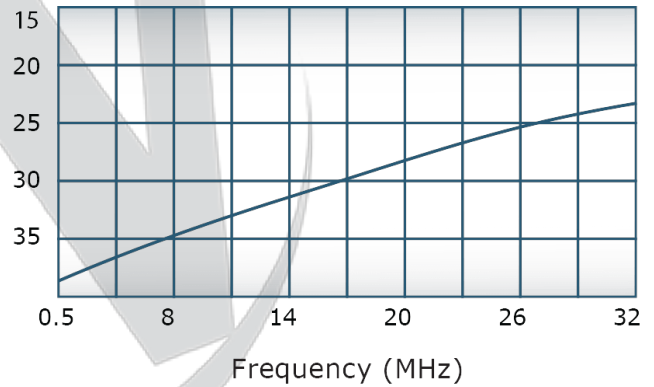
VSWR:



Insertion Loss:



Directivity:



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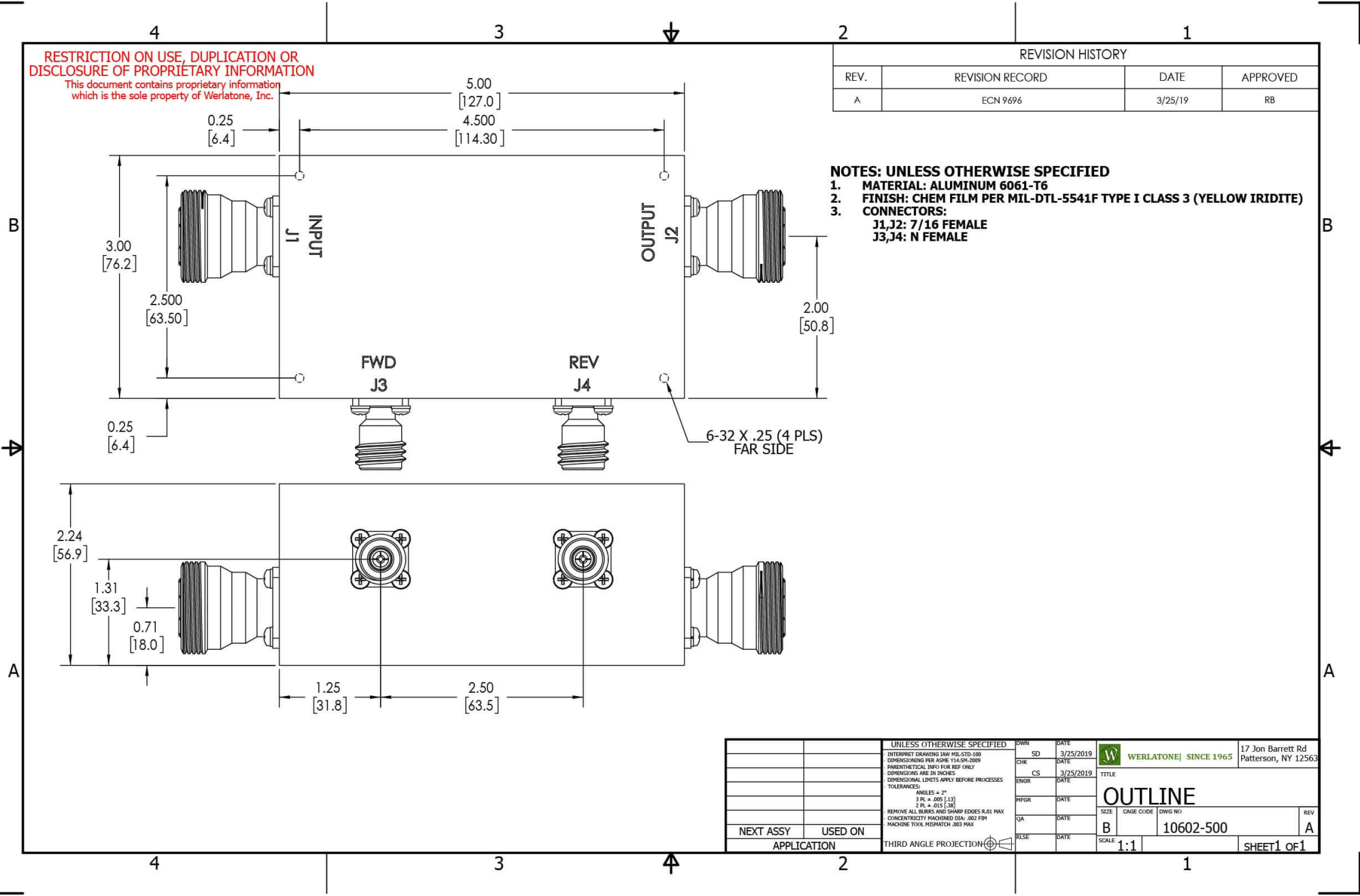
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	3/25/19	RB

- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6
  - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
  - CONNECTORS:  
 J1,J2: 7/16 FEMALE  
 J3,J4: N FEMALE



UNLESS OTHERWISE SPECIFIED		DWN	DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100		SD	3/25/2019	
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	
PARENTHERTICAL INFO FOR REF ONLY		CS	3/25/2019	TITLE
DIMENSIONS ARE IN INCHES		ENGR	DATE	<b>OUTLINE</b>
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	SIZE CAGE CODE DWG NO
TOLERANCES:		QA	DATE	B 10602-500 A
ANGLES ± 2°		RLSE	DATE	SCALE 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	APPLICATION	THIRD ANGLE PROJECTION	

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