

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:

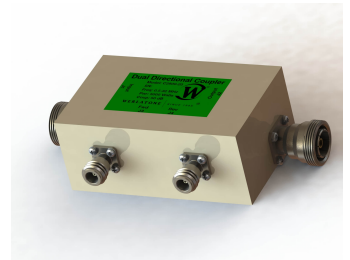
Type: Connectorized
Material: Aluminum 6061-T6
Surface Finish: Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite)
RoHS Compliant Available
Operating Temperature: -55°C to +75°C
Storage Temperature: -60°C to +85°C
Humidity: 95% Non-Condensing
Size: 5.0 x 3.0 x 2.24"

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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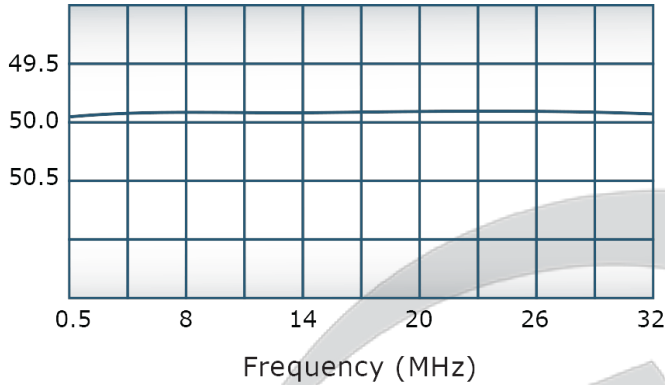


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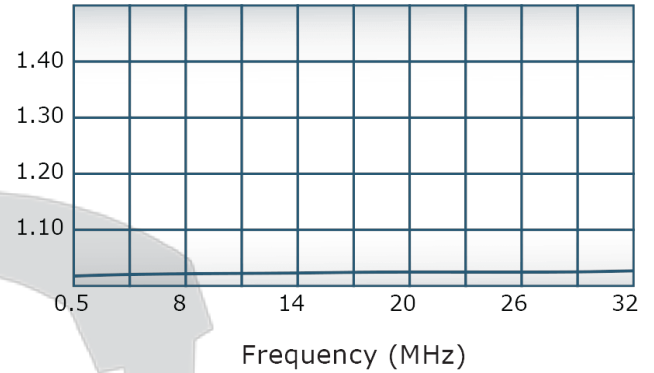
C2800

Performance Data (Specifications subject to change without notice):

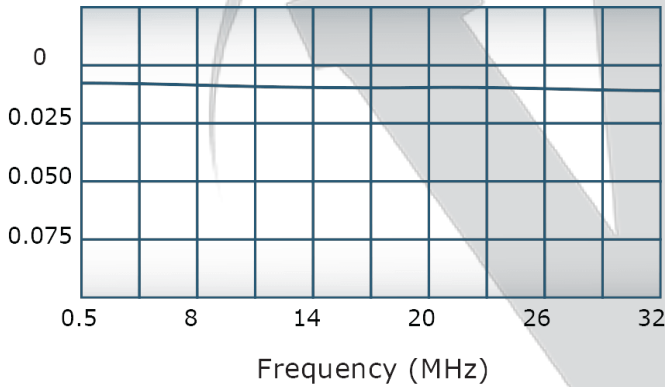
Coupling:



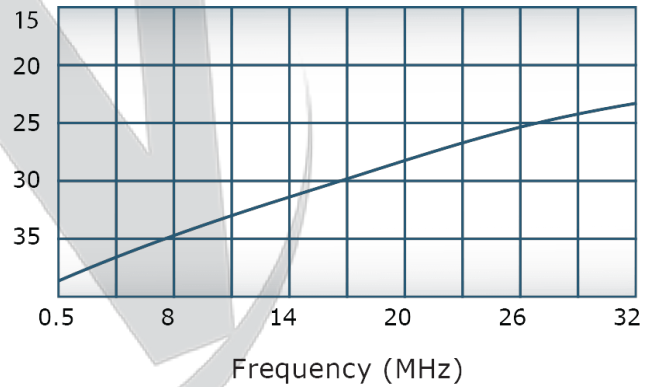
VSWR:



Insertion Loss:



Directivity:



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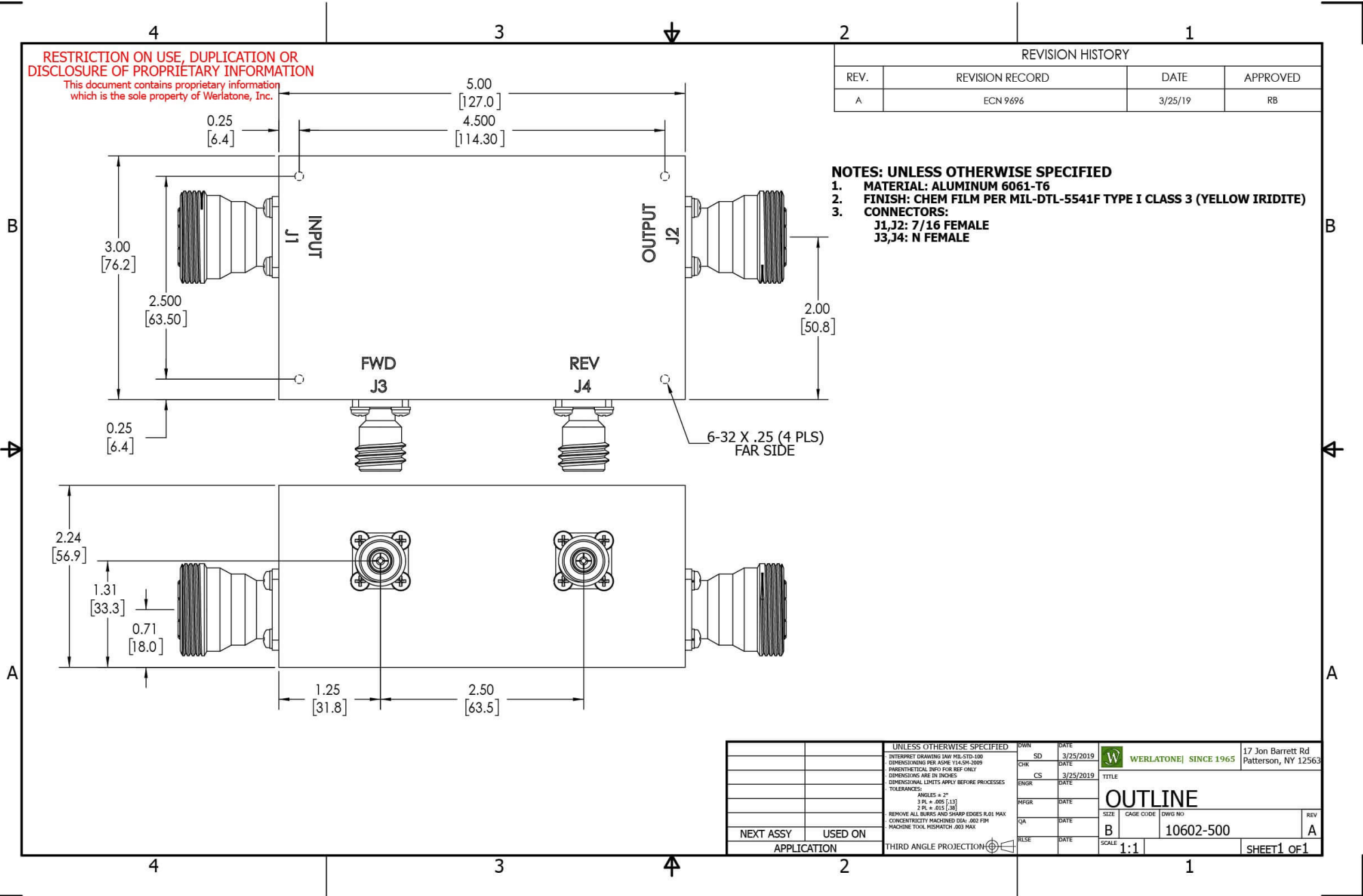
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	3/25/19	RB

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	WERLATONE SINCE 1965	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	TITLE	
PARENTHEetical INFO FOR REF ONLY		CS	3/25/2019	OUTLINE	
DIMENSIONS ARE IN INCHES		ENGR	DATE	SIZE	CAGE CODE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		INFR	DATE	B	10602-500
TOLERANCES:		QA	DATE	DWG NO	REV
ANGLES ± 2°		RLSE	DATE	SCALE	A
3 PL ± .005 [13]		APPLICATION			
2 PL ± .015 [38]		THIRD ANGLE PROJECTION			
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		SHEET 1 OF 1			
CONCENTRICITY MACHINED DIA: .002 FIM					
MACHINE TOOL MISMATCH .003 MAX					

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