


PRODUCT DATA SHEET
C5891

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: 2 - 50 MHz
Power: 100 W CW
Coupling: 30 ± 1.0 dB Max.
Flatness: ± 0.2 dB Max.
Insertion Loss: 0.15 dB Max.
VSWR (ML): 1.10:1 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: 4.0 x 2.0 x 1.88"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5891-10	N Female	N Female	N Female	N Female
C5891-12	N Female	N Female	SMA	SMA
C5891-13	N Female	N Female	BNC	BNC
C5891-102	SMA	SMA	SMA	SMA
C5891-200	BNC	BNC	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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WERLATONE

Model C5891

Connectorized Directional Couplers

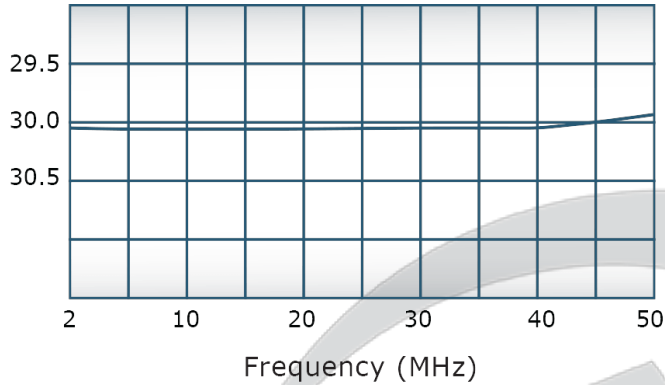


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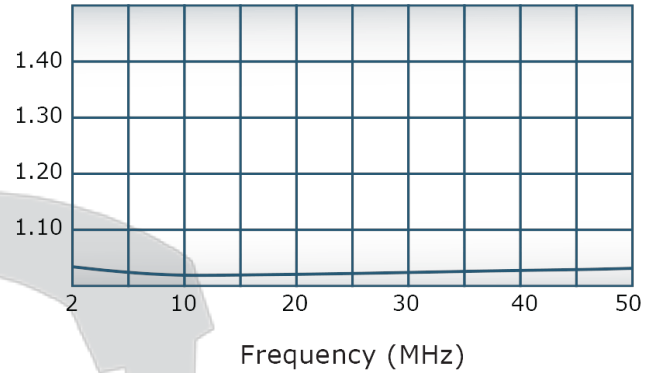
C5891

Performance Data (Specifications subject to change without notice):

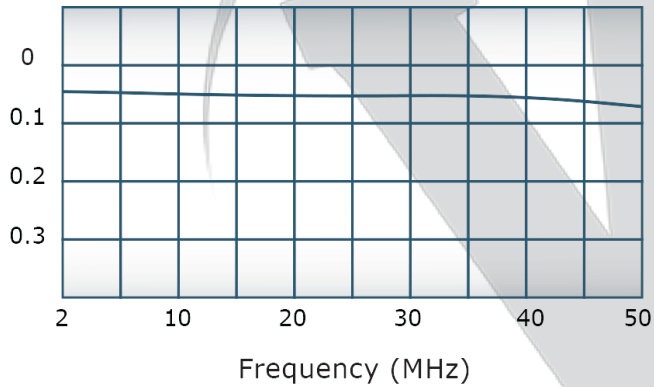
Coupling:



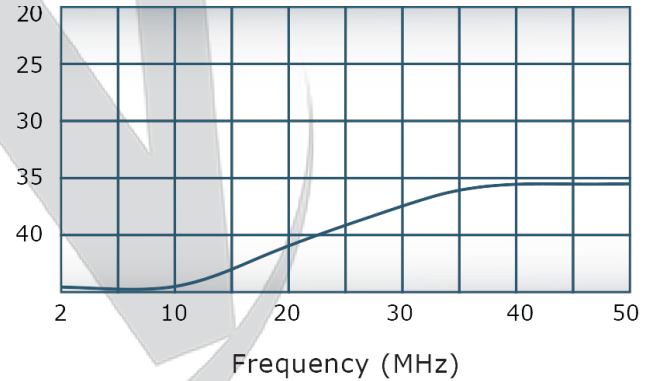
VSWR:



Insertion Loss:



Directivity:

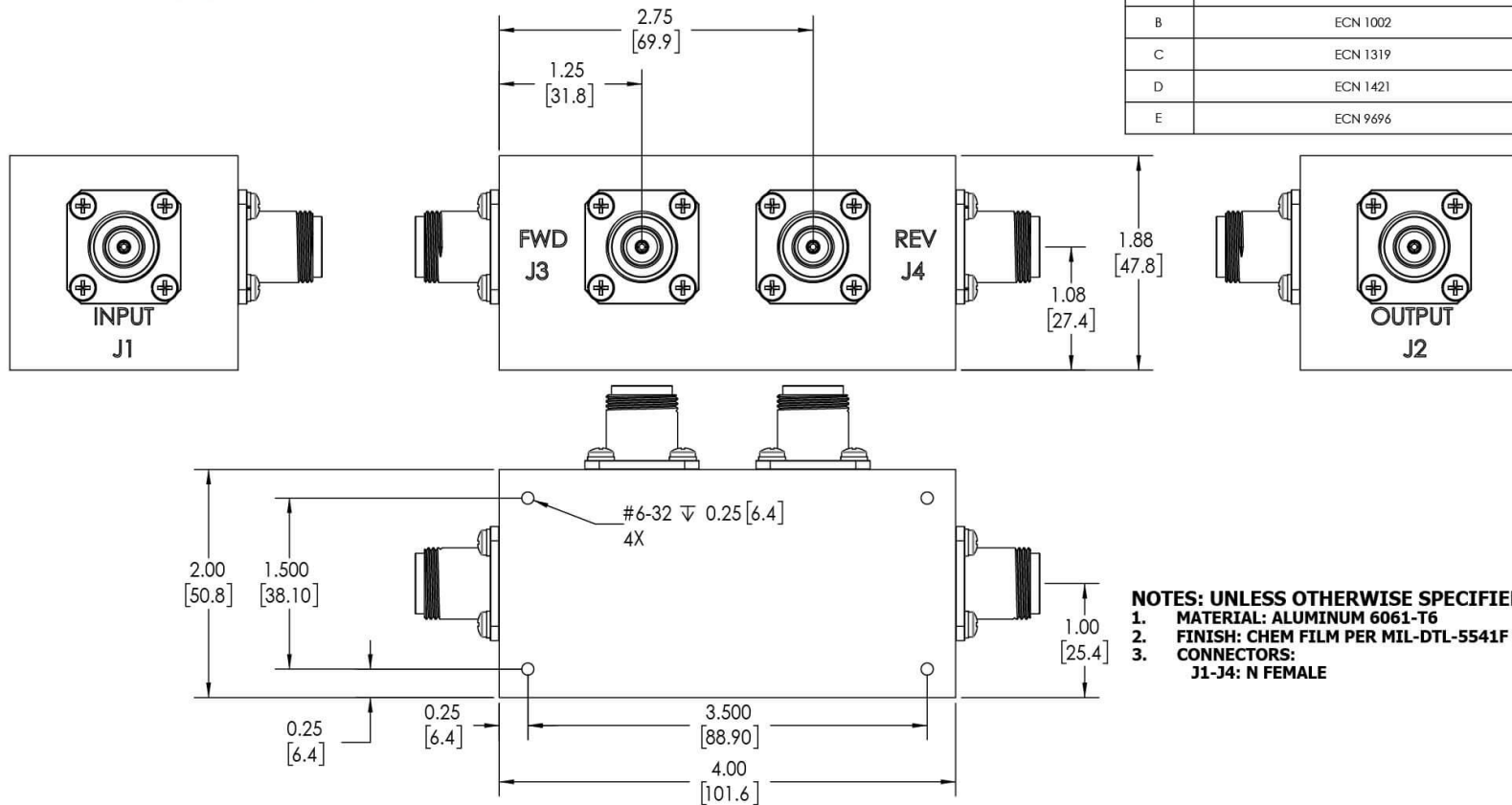


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 1001	10/86	GW
B	ECN 1002	6/92	DK
C	ECN 1319	4/95	CS
D	ECN 1421	12/96	CS
E	ECN 9696	11/18	RB



NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:
J1-J4: N FEMALE

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING JAW MSL-STD-180		SD	2/11/2019				
		DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE				
		DIMENSIONAL INFO FOR REF ONLY		CS	2/11/2019	TITLE			
		DIMENSIONS ARE IN INCHES		ENGR	DATE	<h1>OUTLINE</h1>			
		DIMENSIONAL LIMITS APPLY BEFORE DIMENSIONS		NGRD	DATE				
		TOLERANCES:		QA	DATE	SIZE	CAGE CODE	DWG NO	REV
		ANGLES = 17							
		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 .004 MAX		RLSE	DATE	SCALE		E	
NEXT ASSY		USED ON				10018-500			
APPLICATION		THIRD ANGLE PROJECTION				1:1		SHEET 1 OF 1	

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