



## PRODUCT DATA SHEET

C5951

**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:            20 - 150 MHz  
Power:                 3000 W CW  
Coupling:             50 ± 1.0 dB Max.  
Insertion Loss:      0.1 dB Max.  
Flatness:             ± 0.5 dB Max.  
VSWR (ML):         1.05:1 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)
C5951-10	N Female	N Female	N Female	N Female
C5951-12	N Female	N Female	SMA	SMA
C5951-13	N Female	N Female	BNC	BNC
C5951-20	7/16 Female	7/16 Female	N Female	N Female
C5951-22	7/16 Female	7/16 Female	SMA	SMA
C5951-41	SC Female	SC Female	N Female	N Female
C5951-61	HN Female	HN Female	N Female	N Female
C5951-63	HN Female	HN Female	SMA	SMA
C5951-751	HN Female	HN Male	BNC	BNC

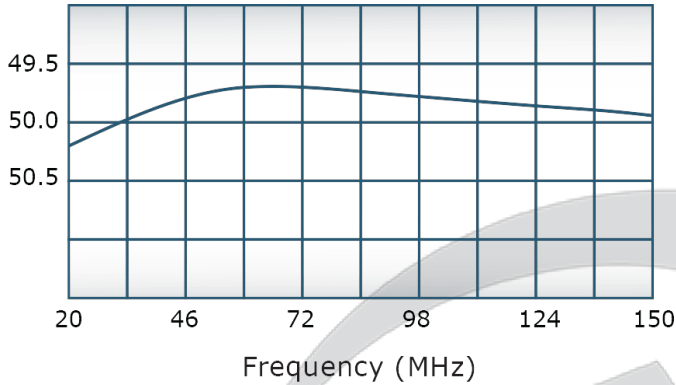


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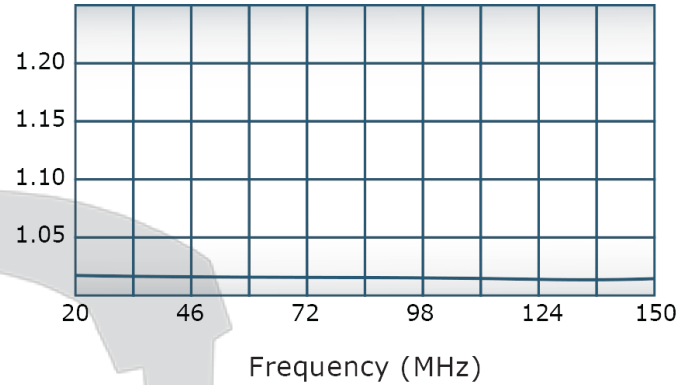
C5951

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

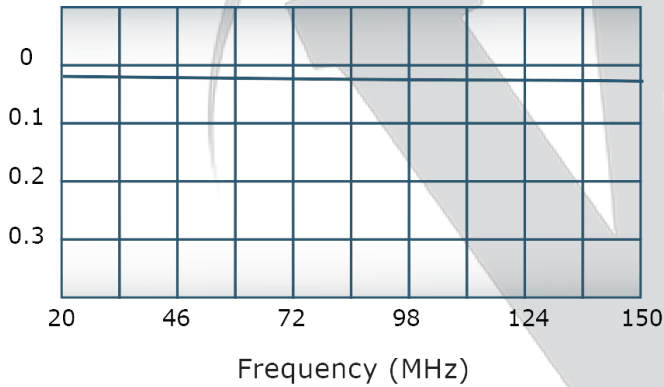
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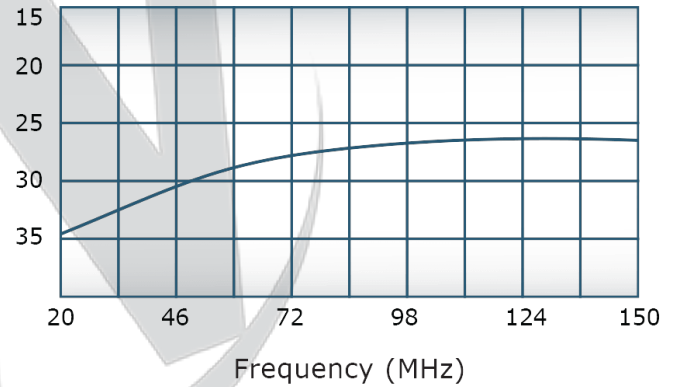
VSWR:



Insertion Loss:



Directivity:



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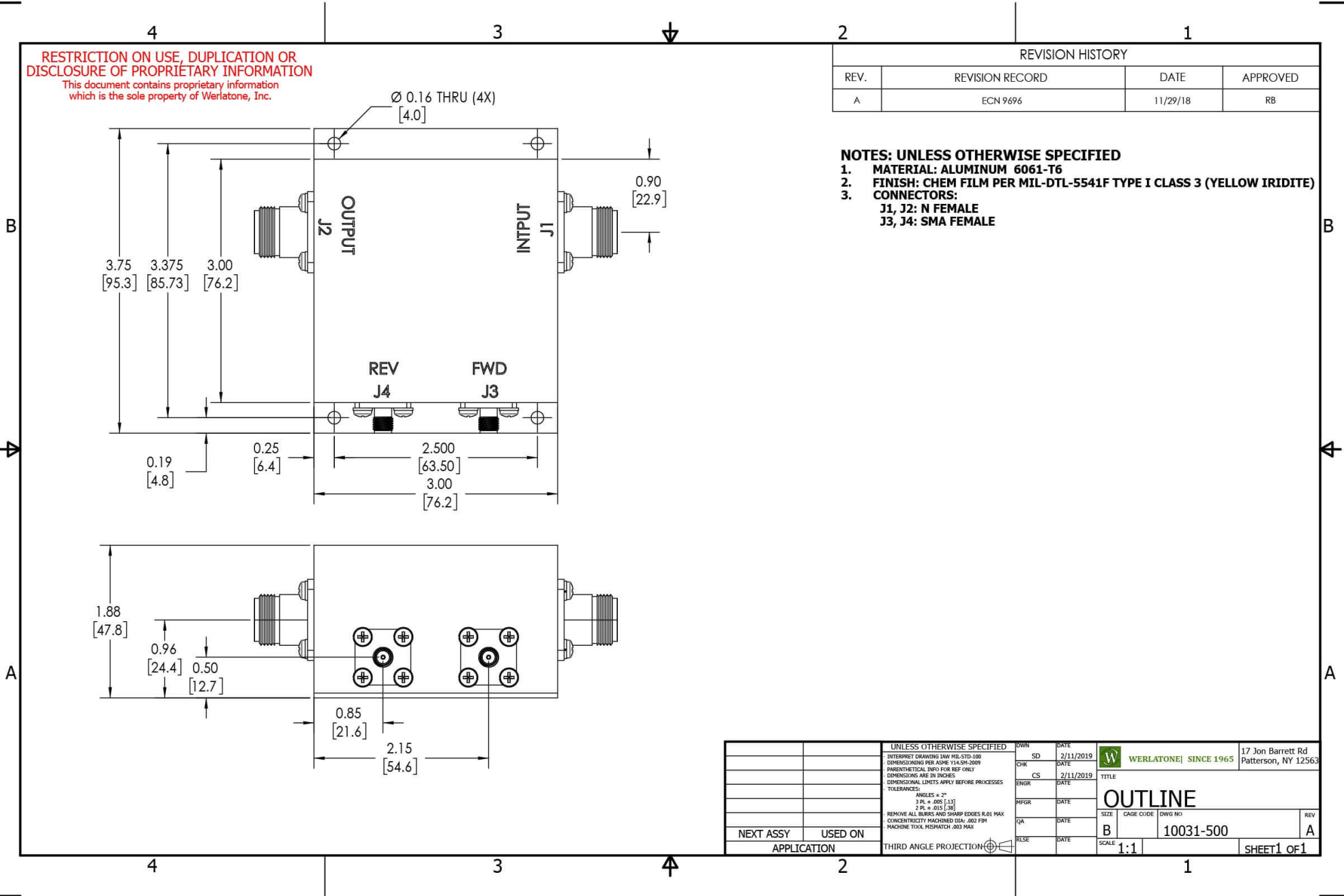
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/29/18	RB

**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		
DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE		
PARENTHEetical INFO FOR REF ONLY	CS	2/11/2019	TITLE	
DIMENSIONS ARE IN INCHES	ENGR	DATE	<b>OUTLINE</b>	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	INFR	DATE	SIZE	CAGE CODE
TOLERANCES:	QA	DATE	B	10031-500
ANGLES = 2°	RLSE	DATE	SCALE	1:1
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	REV	A
APPLICATION			SHEET	1 OF 1

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