
**PRODUCT DATA SHEET**
**C5954**

**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 - 200 MHz  
 Power:          10,000 W CW  
 Coupling:        60 ± 1.0 dB Max.  
 Insertion Loss: 0.1 dB Max.  
 Flatness:        ± 0.5 dB Max.  
 VSWR (ML):    1.10:1 Max.  
 Directivity:     25 dB Min.

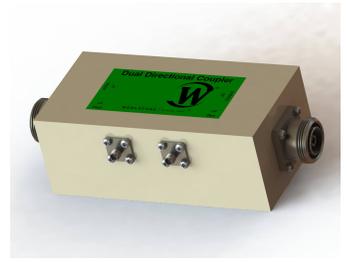
**Mechanical Specifications:**

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:              6.0 x 3.0 x 2.24"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5954-20*	7/16 Female	7/16 Female	N Female	N Female
C5954-23*	7/16 Female	7/16 Female	BNC	BNC
C5954-30	LC Female	LC Female	N Female	N Female
C5954-32	LC Female	LC Female	SMA	SMA
C5954-33	LC Female	LC Female	BNC	BNC
C5954-61**	HN Female	HN Female	N Female	N Female
C5954-63**	HN Female	HN Female	SMA	SMA
C5954-64**	HN Female	HN Female	BNC	BNC
C5954-501	SQS Female	SQS Female	N Female	N Female
C5954-503	SQS Female	SQS Female	BNC	BNC
C5954-QC-0	QC Block	QC Block	N Female	N Female

\* Power Rating is decreased to 5,000 W CW with 7/16 Mainline Connectors. \*\*Unit dimensions are 6.0 x 3.0 x 2.25"

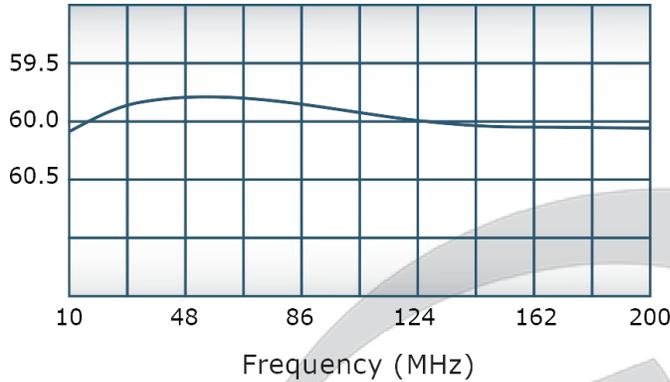


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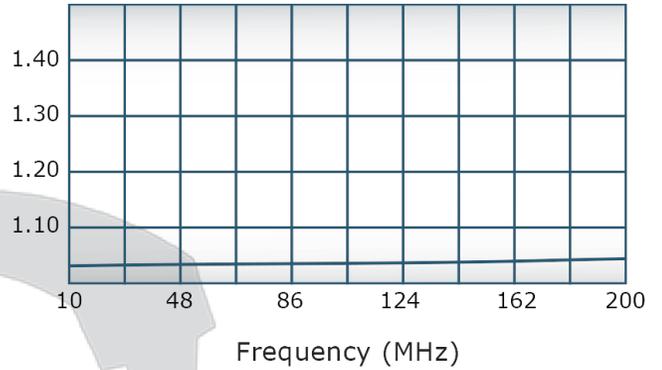
C5954

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

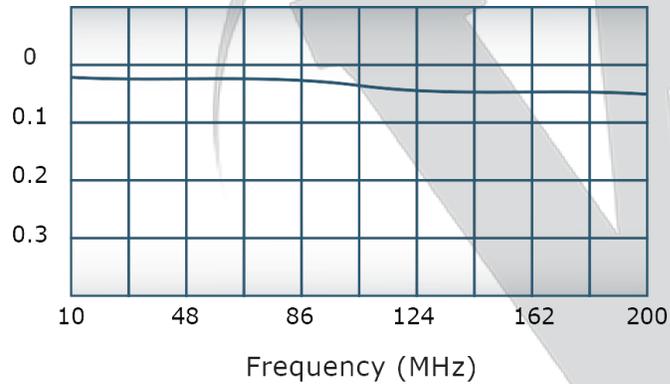
Coupling:



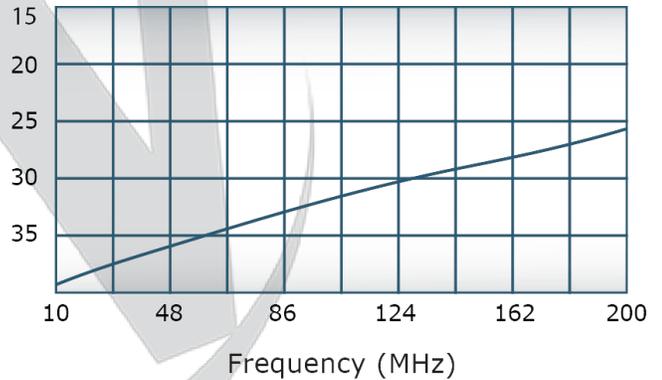
VSWR:



Insertion Loss:



Directivity:



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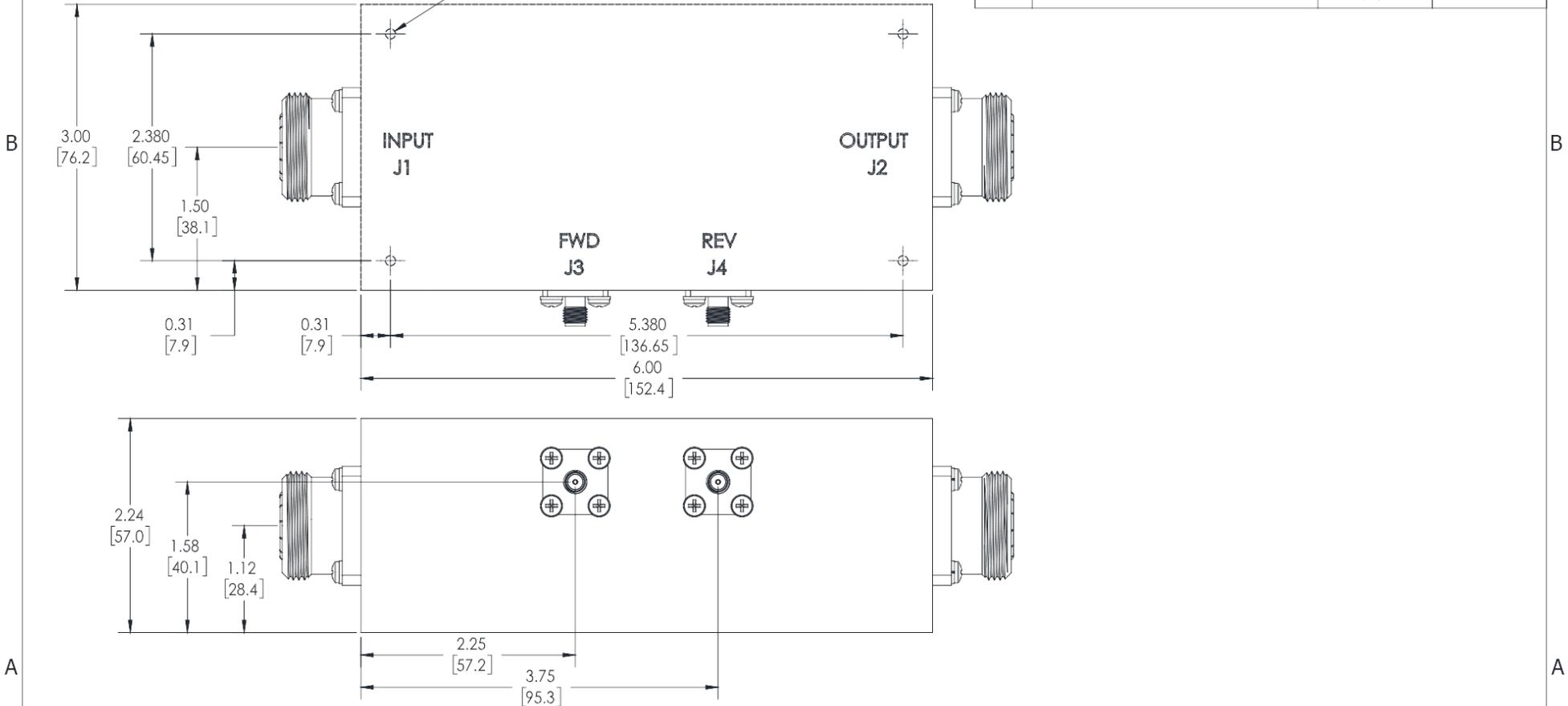
Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/28/18	RB



**NOTES: UNLESS OTHERWISE SPECIFIED**

- MAT'L: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS:  
J1, J2: 7/16 FEMALE  
J3, J4: SMA FEMALE**

UNLESS OTHERWISE SPECIFIED		OWN	DATE	<b>WERLATONE SINCE 1965</b>	17 Jon Barrett Rd Patterson, NY 12563
• INTERPRET DRAWING LAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHEICAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES: ± 2° 3 PL ± .005 [1.3] 2 PL ± .015 [3.8] • REMOVE ALL BURRS AND SHARP EDGES R.03 MAX • CONCENTRICITY MACHINED DIA: .002 FDM • MACHINE TOOL MISMATCH: .003 MAX		SD	2/11/2019		
NEXT ASSY		CHK	DATE	TITLE	
USED ON		ENGR	2/11/2019	OUTLINE	
APPLICATION		INPR	DATE	SIZE	CAGE CODE
THIRD ANGLE PROJECTION		QA	DATE	B	10396-502
		RLSE	DATE	SCALE	REV
				1:1	A
				SHEET 1 OF 1	

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