


PRODUCT DATA SHEET
C5993

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 - 150 MHz
Power: 2,500 W CW
Coupling: 60 ± 1.0 dB Max.
Insertion Loss: 0.1 dB Max.
Flatness: ± 0.25 dB Max.
VSWR (ML): 1.10:1 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: 3.75 x 3.0 x 1.88"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5993-10	N Female	N Female	N Female	N Female
C5993-12	N Female	N Female	SMA	SMA
C5993-13	N Female	N Female	BNC	BNC
C5993-20	7/16 Female	7/16 Female	N Female	N Female
C5993-61*	HN Female	HN Female	N Female	N Female
C5993-63*	HN Female	HN Female	SMA	SMA
C5993-751*	HN Female	HN Male	BNC	BNC

*Starred options are 3.75 x 3.0 x 1.87"

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.



WERLATONE

Model C5993

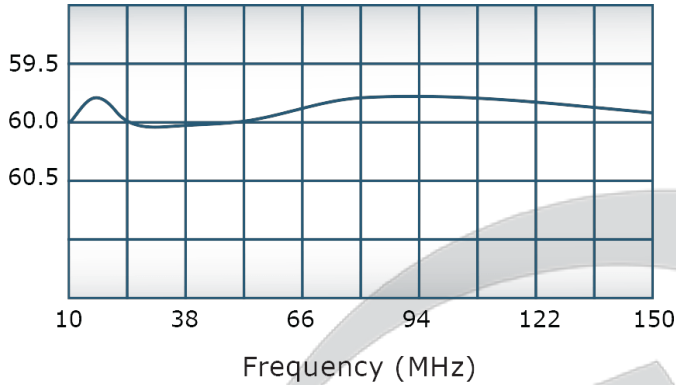


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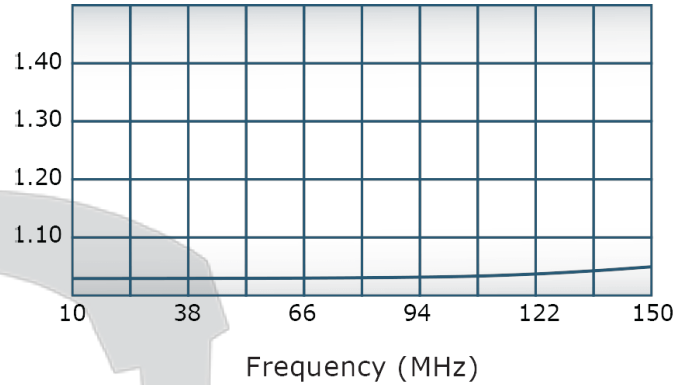
C5993

Performance Data (Specifications subject to change without notice):

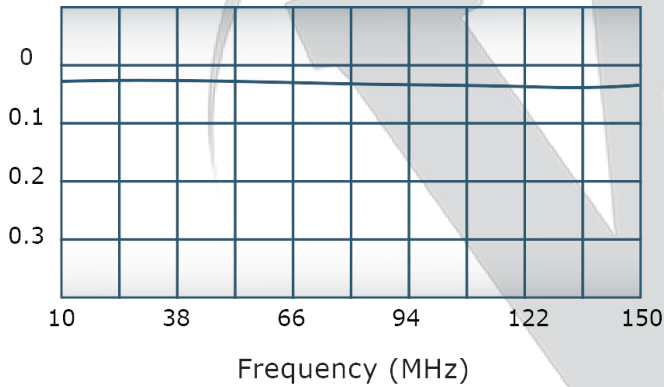
Coupling:



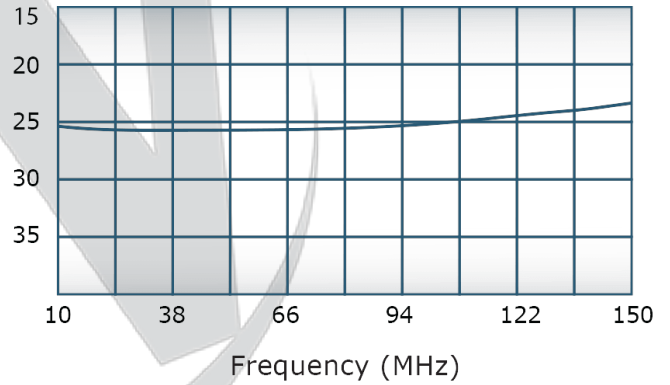
VSWR:



Insertion Loss:



Directivity:



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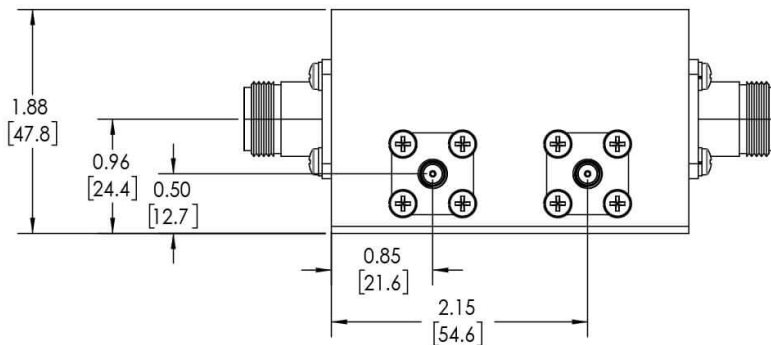
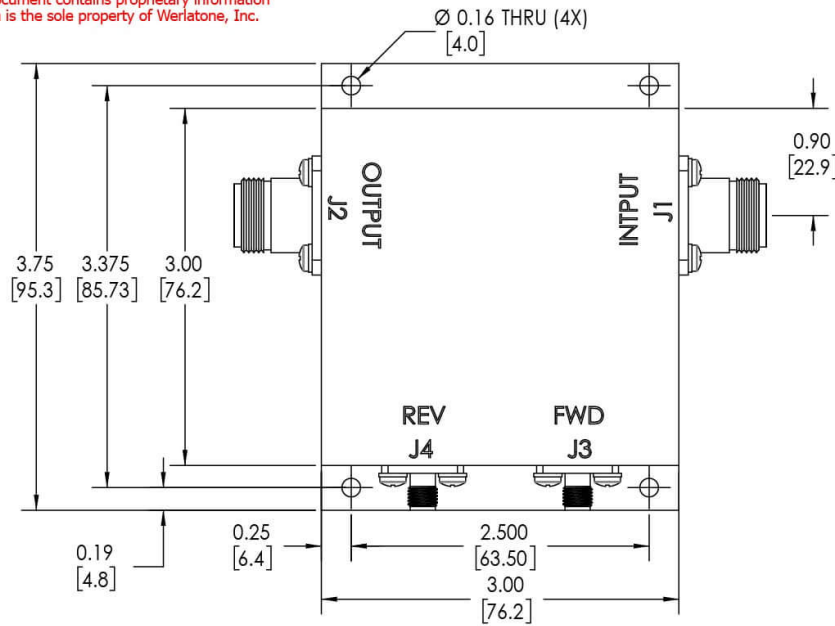
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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



<div>NEXT ASSY</div> <div>USED ON</div> <div>APPLICATION</div>		<div>UNLESS OTHERWISE SPECIFIED</div> <div>INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100</div> <div>DIMENSIONING PER ASME Y14.5M-2009</div> <div>ORTHOGONAL DIMS FOR REF ONLY</div> <div>DIMENSIONS ARE IN INCHES</div> <div>DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</div> <div>TOLERANCES:</div> <div>ANGLES ± 2°</div> <div>3 PL ± .005 [13]</div> <div>2 PL ± .015 [38]</div> <div>REMOVE ALL BURRS AND SHARP EDGES R.01 MAX</div> <div>CONCENTRICITY MACHINED DIA. .002 FIM</div> <div>MACHINE TOOL MISMATCH .003 MAX</div>		<div>DWN</div> <div>SD</div> <div>DATE</div> <div>2/11/2019</div>	<div><div><div></div></div><div>WERLATONCE SINCE 1965</div></div>	<div>17 Jon Barrett Rd</div> <div>Patterson, NY 12563</div>				
				<div>CHK</div> <div>CS</div> <div>DATE</div> <div>2/11/2019</div>				<div>TITLE</div> <div>OUTLINE</div>		
				<div>ENGR</div> <div>DATE</div>				<div>SIZE</div> <div>B</div>	<div>DWG NO</div> <div>10031-500</div>	<div>REV</div> <div>A</div>
				<div>NGFR</div> <div>DATE</div>				<div>SCALE</div> <div>1:1</div>	<div>SHEET</div> <div>1</div> <div>OF</div> <div>1</div>	
		<div>THIRD ANGLE PROJECTION</div>								

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