

PRODUCT DATA SHEET

C5342

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: 470 - 860 MHz
Power: 5000 W CW
Coupling: 60 ± 1.0 dB Max.
Insertion Loss: 0.1 dB Max.
Flatness: ± 0.25 dB Max.
VSWR (ML): 1.15:1 Max.
Directivity: 20 dB Min.

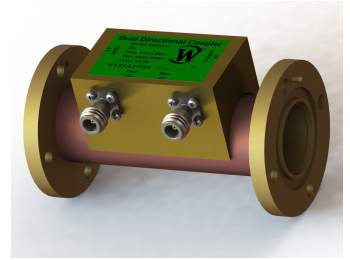
Mechanical Specifications:

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: 6" Line Section

Connector Configurations:

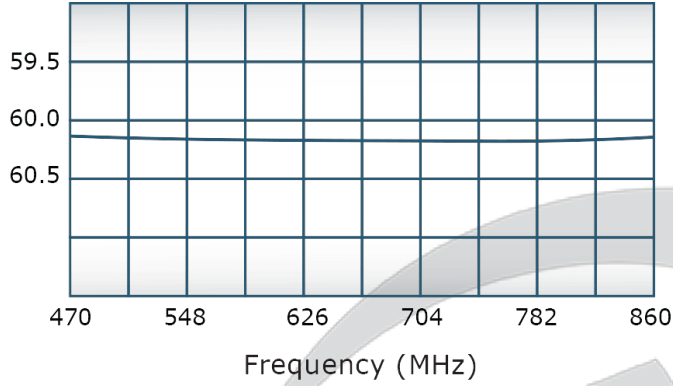
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5342-81	1 5/8" EIA	1 5/8" EIA	N Female	N Female
C5342-83	1 5/8" EIA	1 5/8" EIA	SMA	SMA
C5342-84	1 5/8" EIA	1 5/8" EIA	BNC	BNC

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.

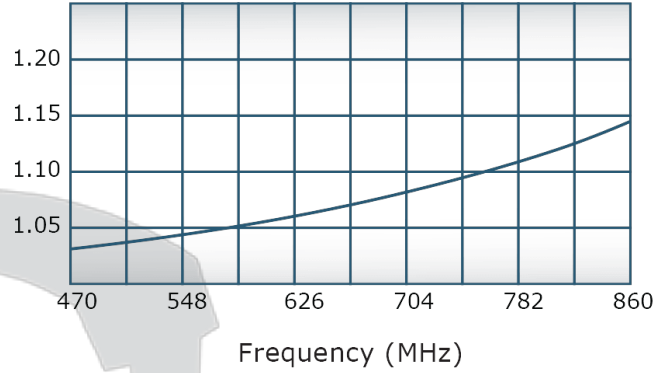


Performance Data (Specifications subject to change without notice):

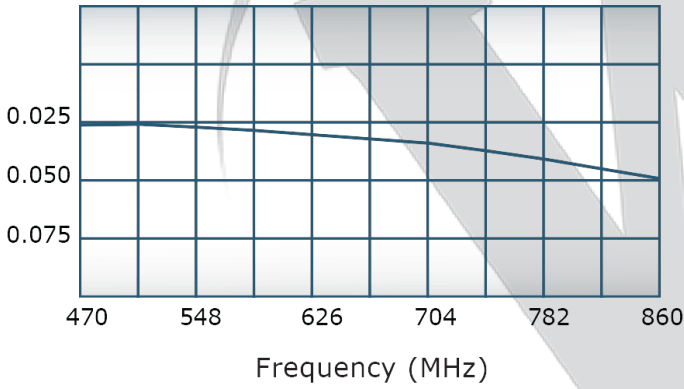
Coupling:



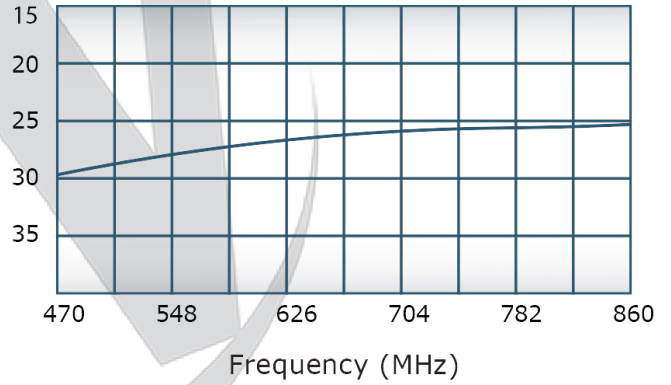
VSWR:



Insertion Loss:

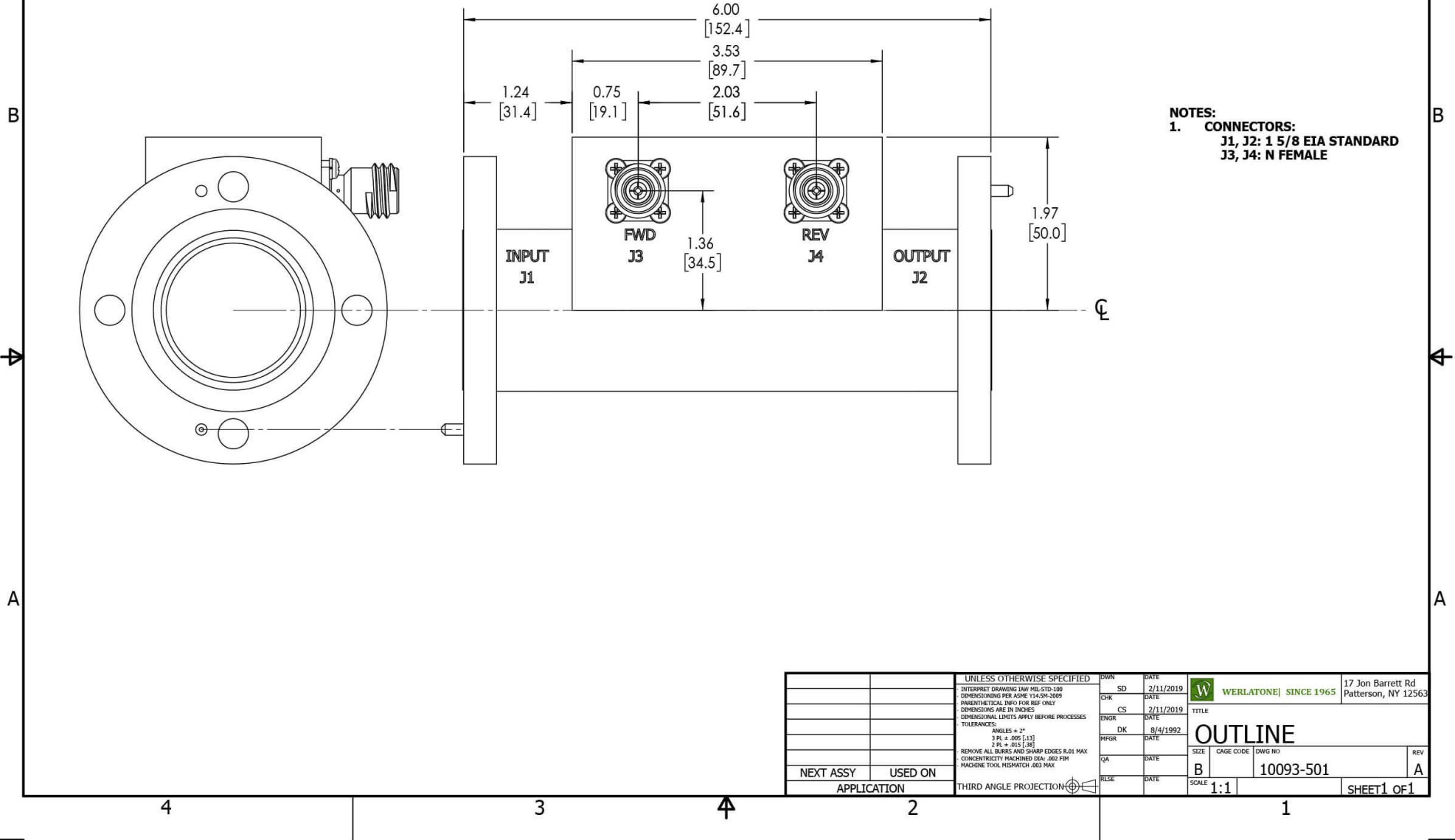


Directivity:



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



NOTES:
 1. CONNECTORS:
 J1, J2: 1 5/8 EIA STANDARD
 J3, J4: N FEMALE

UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	2/11/2019	
DIMENSIONS FOR ASSEMBLY SHALL BE IN INCHES		CHK	DATE	TITLE
PARENTHESES FOR REFERENCE ONLY		CS	2/11/2019	
DIMENSIONS ARE IN INCHES		ENGR	DATE	SIZE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		DK	8/4/1992	CAGE CODE
TOLERANCES:		INFR	DATE	DWG NO
ANGLES ± 2°		QA	DATE	REV
3 PL ± .005 [0.13]		RLSE	DATE	B
2 PL ± .015 [0.38]		SCALE		10093-501
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		SCALE		1:1
CONCENTRICITY MACHINED DIA: .002 FIM		SCALE		SHEET 1 OF 1
MACHINE TOOL MISMATCH .003 MAX.		SCALE		
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		
APPLICATION				

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