



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

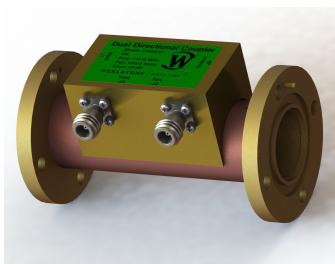
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.



WERLATONE

Model C5342

Connectorized Directional Couplers

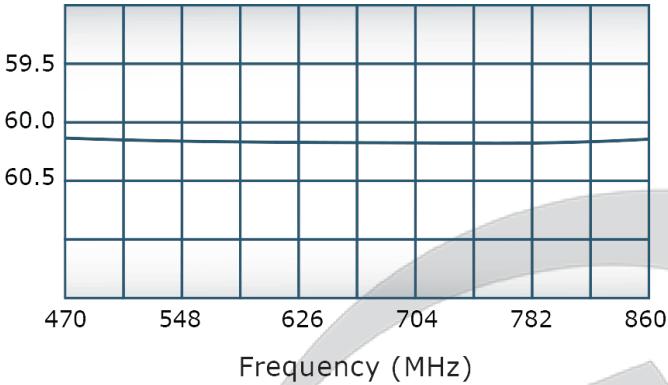


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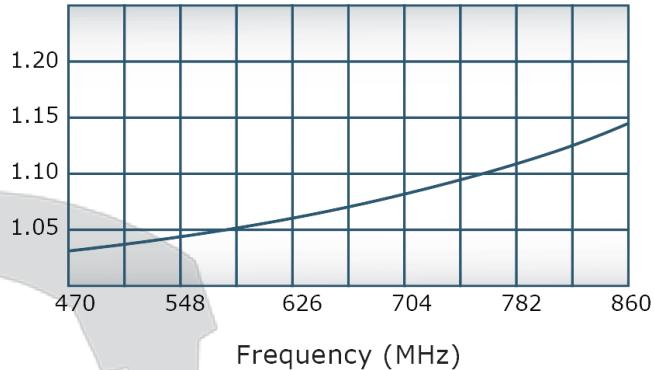
C5342

Performance Data (Specifications subject to change without notice):

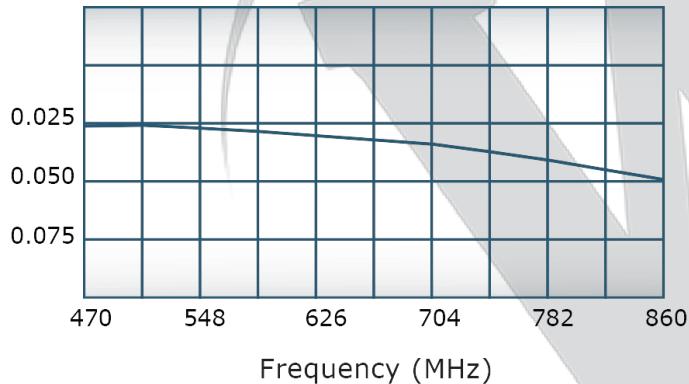
Coupling:



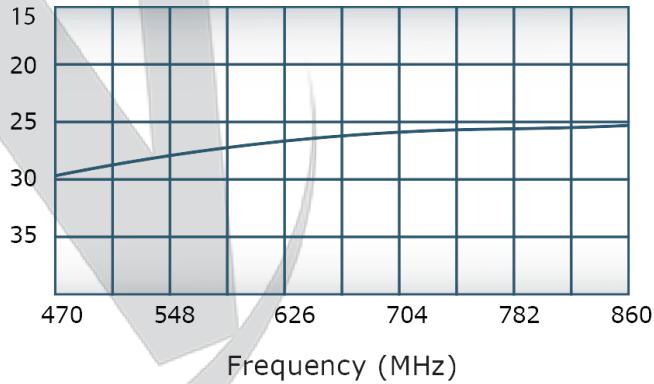
VSWR:



Insertion Loss:



Directivity:



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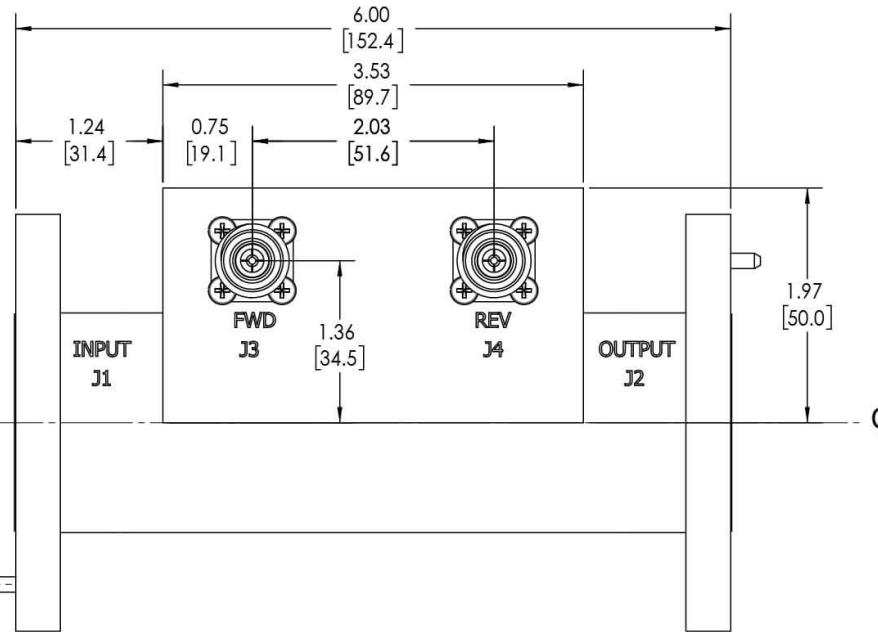
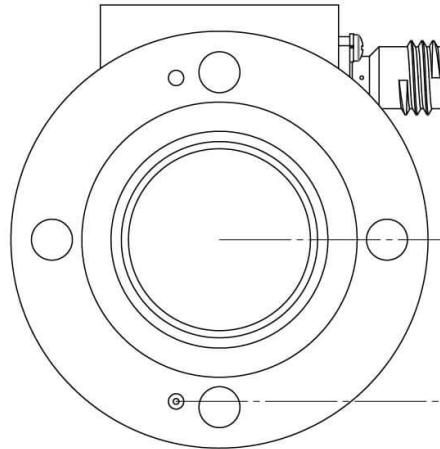
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REVISION HISTORY

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

B



NOTES:

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

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UNLESS OTHERWISE SPECIFIED	OWN	DATE	17 Jon Barrett Rd
INTERPRET DRAWING JAW MIL-STD-100	SD	2/11/2019	WERLATONE SINCE 1965
UNIVERSAL DRAWING ASME Y14.5M-2009	CHK	DATE	Patterson, NY 12563
PARENTHETICAL TOLERANCE FOR REFERENCE ONLY	CS	2/11/2019	
DIMENSIONAL LIMITS ARE IN INCHES	ENGR	DATE	
TOLERANCES	DK	8/4/1992	
ANGLES $\pm 2^\circ$	MFGR	DATE	
3 RL $\pm .005$ [1.27]	QA	DATE	
2 RL $\pm .012$ [3.05]	RELEASE	DATE	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		SCALE	REV
CONCENTRICITY MACHINED DIA: .002 FIM		1:1	A
MACHINE TOOL MISMATCH .003 MAX			
NEXT ASSY USED ON	B	10093-501	
APPLICATION	THIRD ANGLE PROJECTION		SHEET 1 OF 1

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