



## PRODUCT DATA SHEET

C6934

**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:	0.1 - 1000 MHz
Power:	150 W CW
Coupling:	30 ± 1.0 dB Max.
Insertion Loss:	1.2 dB Max.
Flatness:	± 0.5 dB Max.
VSWR (ML):	1.30:1 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:	5.2 x 2.68 x 1.69"

**Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6934-10	N Female	N Female	N Female	N Female
C6934-12	N Female	N Female	SMA	SMA
C6934-13	N Female	N Female	BNC	BNC
C6934-102	SMA	SMA	SMA	SMA

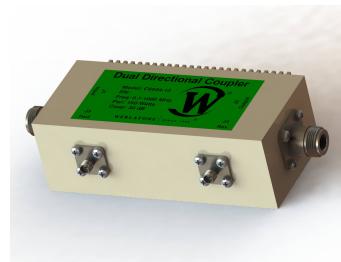
**Werlatone®** Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into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



# WERLATONE

Model C6934

Connectorized Directional Couplers

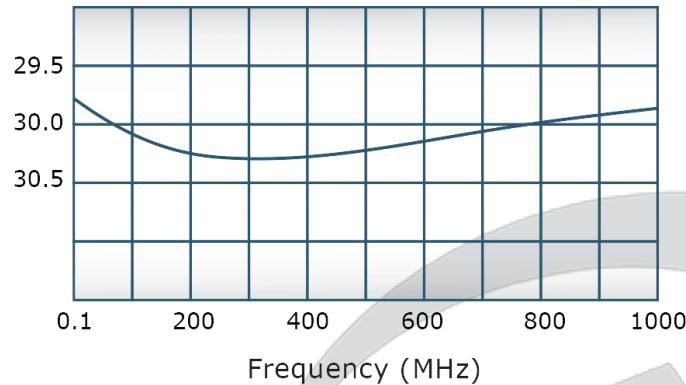


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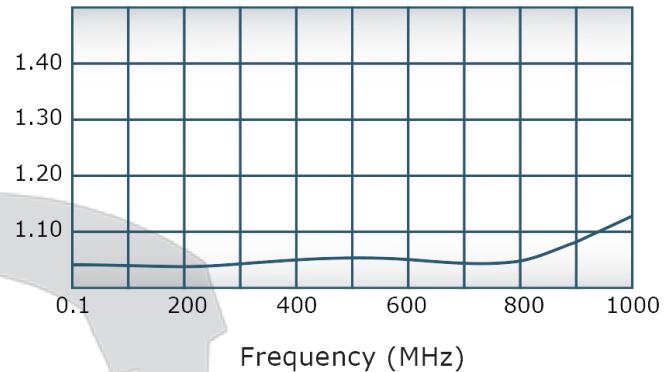
C6934

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

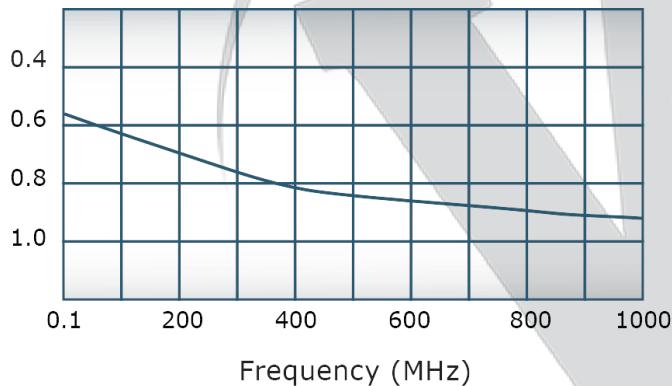
Coupling:



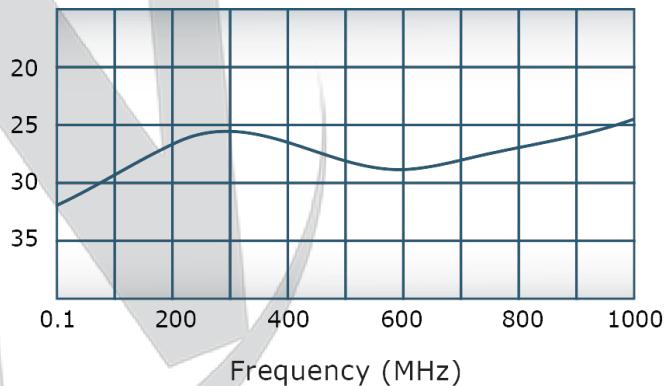
VSWR:



Insertion Loss:



Directivity:



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0.27 [6.9] 0.53 4.15 [105.4] 1.19 [30.2]

2.68 [68.1] 2.28 [57.9] 1.14 [29.0] 1.475 [37.47]

0.40 [10.2] 0.40 [10.2] 4.400 [111.76] 5.20 [132.1]

1.69 [42.9] 0.90 [22.9] 1.20 [30.5] 4.00 [101.6]

FIN THICKNESS .07" WITH .10"  
SPACING BETWEEN THEM (25X)

Input J1 FWD J3 REV J4 Output J2

2.28 [57.9] 1.14 [29.0] 1.475 [37.47]

0.40 [10.2] 0.40 [10.2] 4.400 [111.76] 5.20 [132.1]

1.69 [42.9] 0.90 [22.9] 1.20 [30.5] 4.00 [101.6]

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**NOTES: UNLESS OTHERWISE SPECIFIED**

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:  
J1, J2: N FEMALE  
J3, J4: SMA FEMALE

		UNLESS OTHERWISE SPECIFIED	OWN	DATE	17 Jon Barrett Rd
		INTERPRET DRAWING JAW MIL-STD-100 UNIVERSAL DRAWING ASME Y14.5M-2009	SD	2/11/2019	WERLATONE SINCE 1965
		PARENTHETICAL TOLERANCE FOR REFERENCE ONLY	CHK	DATE	Patterson, NY 12563
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	CS	2/11/2019	
		TOLERANCES	ENGR	DATE	
		ANGLES $\pm 2^\circ$	BW	5/28/2008	
		3 RL $\pm .005$ [125]	MFGR	DATE	
		2 RL $\pm .012$ [305]	QA	DATE	
		REMOVE ALL BURRS AND SHARP EDGES R0.1 MAX	RELEASE	DATE	
		CONCENTRICITY MACHINED DIA. .002 FIM			
		MACHINE TOOL MISMATCH .003 MAX			
NEXT ASSY	USED ON	APPLICATION		SCALE	REV
		THIRD ANGLE PROJECTION		1:1.5	A
					SHEET 1 OF 1

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