

**PRODUCT DATA SHEET** 



C3910

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	<b>4-Port Dual Directional Coupler</b> 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: $80-1000 \text{ MHz}$ Power: $200 \text{ W CW}$ Coupling: $40 \pm 1.0 \text{ dB Max}$ .Insertion Loss: $0.2 \text{ dB Max}$ .Flatness: $\pm 0.3 \text{ dB Max}$ .VSWR (ML): $1.20:1 \text{ Max}$ .Directivity: $20 \text{ dB Min}$ .Mechanical Specifications:Type:ConnectorizedMaterial:Aluminum 6061-T6Suface Finish:Chem. Film Per MIL-DTL-5541FType I Class 3 (Yellow Iridite)RoHS Compliant AvailableOperating Temperature: $-55^{\circ}$ C to $+75^{\circ}$ CStorage Temperature: $-60^{\circ}$ C to $+85^{\circ}$ CHumidity: $95\%$ Non-CondensingSize: $3.0 \times 3.0 \times 1.09^{\circ}$						
	Connector Configurations:						
	Model C3910-10 C3910-12 C3910-13 C3910-102 C3910-610 C3910-612 C3910-712 C3910-714	Input (J1) N Female N Female SMA N Female N Female N Male N Male	Output (J2 N Female N Female N Female SMA N Male N Male N Female N Female	) Fwd (J3) N Female SMA BNC SMA N Female SMA SMA N Female	SMA BNC SMA N Female 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.

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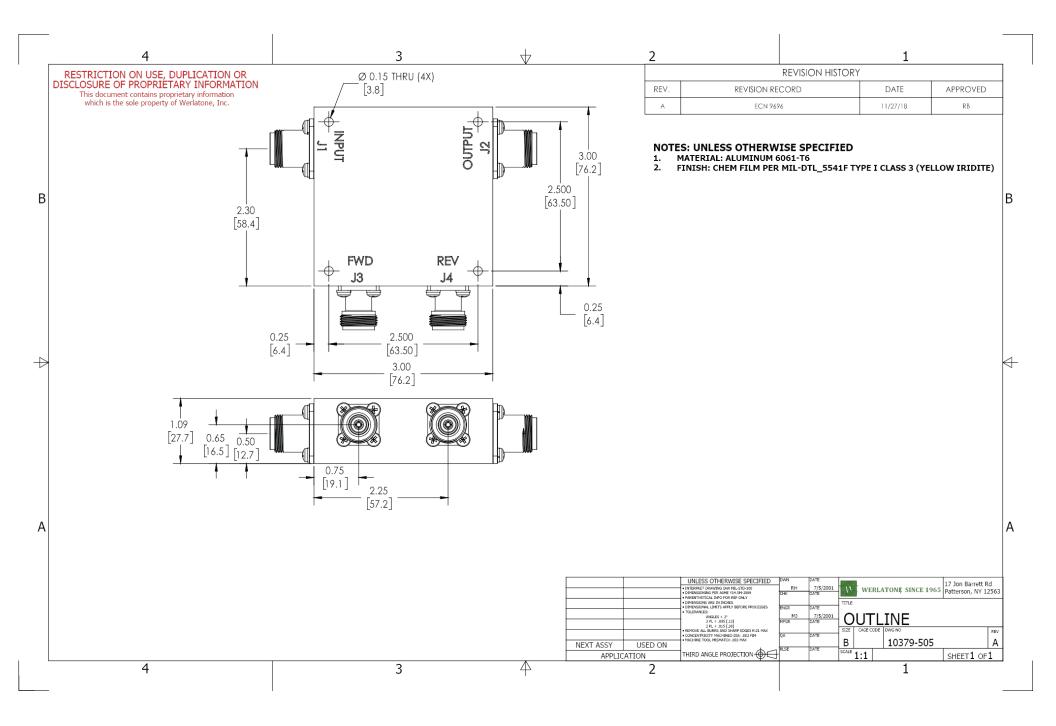
## Performance Data (Specifications subject to change without notice):

Plot 1: Coupling, Plot 2: Directivity, Plot 3: Insertion Loss, Plot 4: VSWR

💷 E5071C Netv	vork Analyzer						
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State							
	D-SP_TESTED BY: RAY_SN: 98721						
Tr5 S42	_og Mag 300.0mdB/ Ref -40.00dB [F4] _og Mag 300.0mdB/ Ref -40.00dB [F4]						
-39.70	>1 1.0000000 GHz -40.073 dB						
-40.00	~						
-40.30							
-40.60							
Tr6 S42	_og Mag 5.000dB/ Ref -20.00dB [F4 Equ] _og Mag 5.000dB/ Ref -20.00dB [F4 Equ]						
-20.00	>1 1.0000000 GHz -28.300 dB						
-25.00							
-30.00		<u> </u>					
-35.00 L							
Tr3 S21	_og Mag 200.0mdB/ Ref 0.000dB [F4]	-					
	>1 1.0000000 GHz -0.1879 dB						
0.000		<b>*</b>					
-200.0m							
-400.0m							
-600.0m L							
1 400 -	SWR 100.0m/ Ref 1.000 [F4]						
1.300	>1 1.0000000 GHz 1.0186						
1.200							
1.100							
1.000		\$					
1 Start 80 MH	Hz IFBW 70 kHz	Stop 1 GHz 16/16 Cor !					
	Meas Stop ExtRef Svo						

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C3910 Rev.-