



C5091

## **PRODUCT DATA SHEET**

**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:	0.01 - 250 MHz			
Power: Coupling:	100 W CW 30 ± 1.0 dB Max.			
Insertion Loss:	$30 \pm 1.0$ dB Max.			
Flatness:	± 0.8 dB Max.			
VSWR (ML):	1.25:1 Max.			
Directivity:	20 dB Min.			
Mechanical Specifications:				
Туре:	Connectorized			
Material: Aluminum 6061-T6				
Surface Finish: Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite)				
		pliant Available	e)	
Operating Temperature: -55°C to +75°C				
Storage Temperature: -60°C to +85°C				
Humidity: 95% Non-Condensing				
Size: 5.2 x 2.67 x 1.69"				
Connector Con	figurations			
Connector Conn	ingurations:			
Model	Input (J1)	Output (J2	) Fwd (J3)	Rev (J4)
C5091-10	N Female	N Female	N Female	N Female
C5091-12	N Female	N Female	SMA	SMA
C5091-13	N Female	N Female	BNC	BNC
C5091-102 C5091-200	SMA BNC	SMA BNC	SMA BNC	SMA BNC
C2031-200				

**Werlatone**<sup>®</sup> 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<sup>®</sup>, 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.

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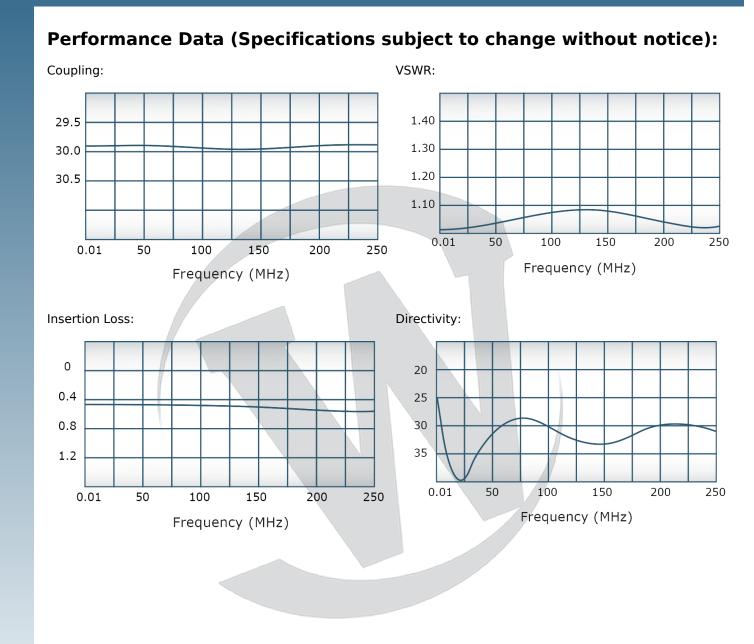
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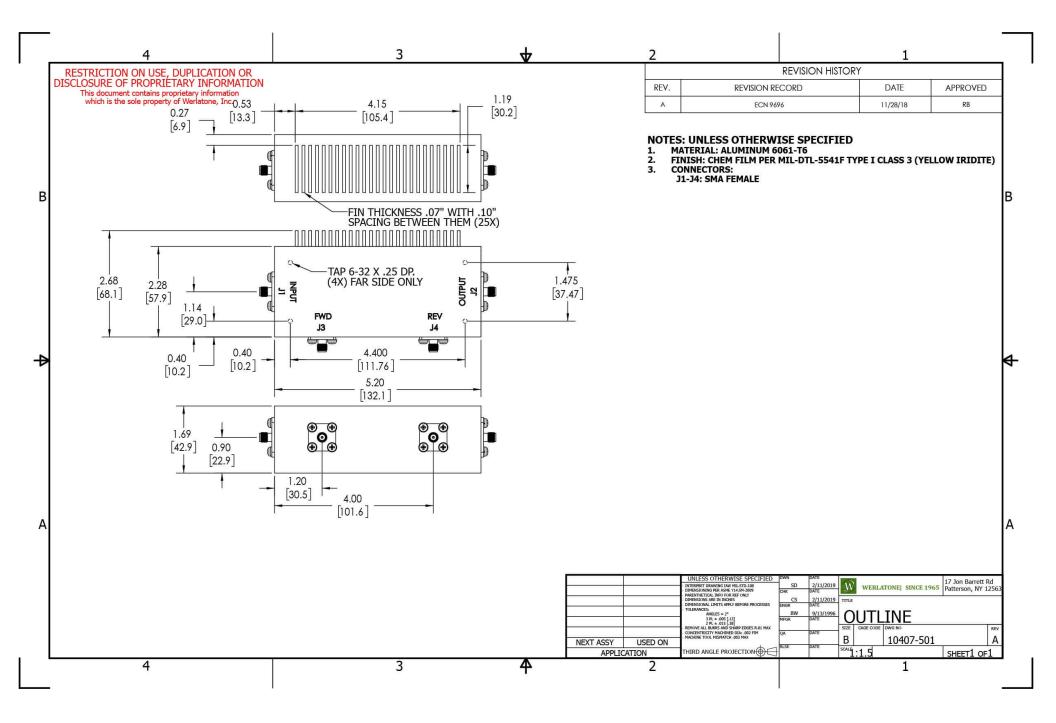
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