



**PRODUCT DATA SHEET** C10023

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:**

500 - 1000 MHz Frequency: Power: 2000 W CW Coupling:  $40 \pm 1.0 \, dB \, Max.$ Insertion Loss: 0.2 dB Max. Flatness: ± 0.5 dB Max. VSWR (ML): 1.30:1 Max. 20 dB Min. Directivity:

### **Mechanical Specifications:**

Connectorized Type: Aluminum 6061-T6 Material:

Surface Finish: Chem. Film Per MIL-DTL-5541F

> Type I Class 3 (Yellow Iridite) RoHS Compliant Available

-55°C to +75°C Operating Temperature: Storage Temperature: -60°C to +85°C Humidity: 95% Non-Condensing

Size: 3.0 x 3.0 x 1.59"

#### **Connector Configurations:**

Model	Input (J1)	Output (J2)	Fwd (J3)	<b>Rev (J4)</b>
C10023-20	7/16 Female	7/16 Female	N Female	N Female
C10023-22	7/16 Female	7/16 Female	SMA	SMA
C10023-23	7/16 Female	7/16 Female	BNC	BNC
C10023-43*	SC Female	SC Female	SMA	SMA
C10023-727	7/16 Male	7/16 Female	N Female	N Female
C10023-745*	SC Male	SC Female	SMA	SMA

<sup>\*</sup>Starred options are 3.0 x 3.0 x 1.09\*

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.

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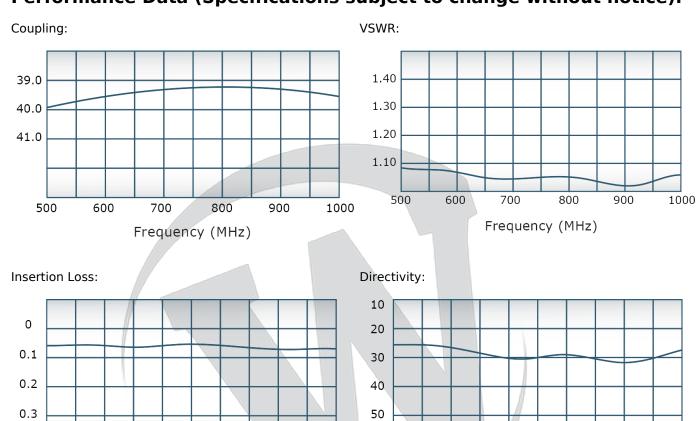
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# Performance Data (Specifications subject to change without notice):



1000

500

700

800

Frequency (MHz)

900

1000

600

500

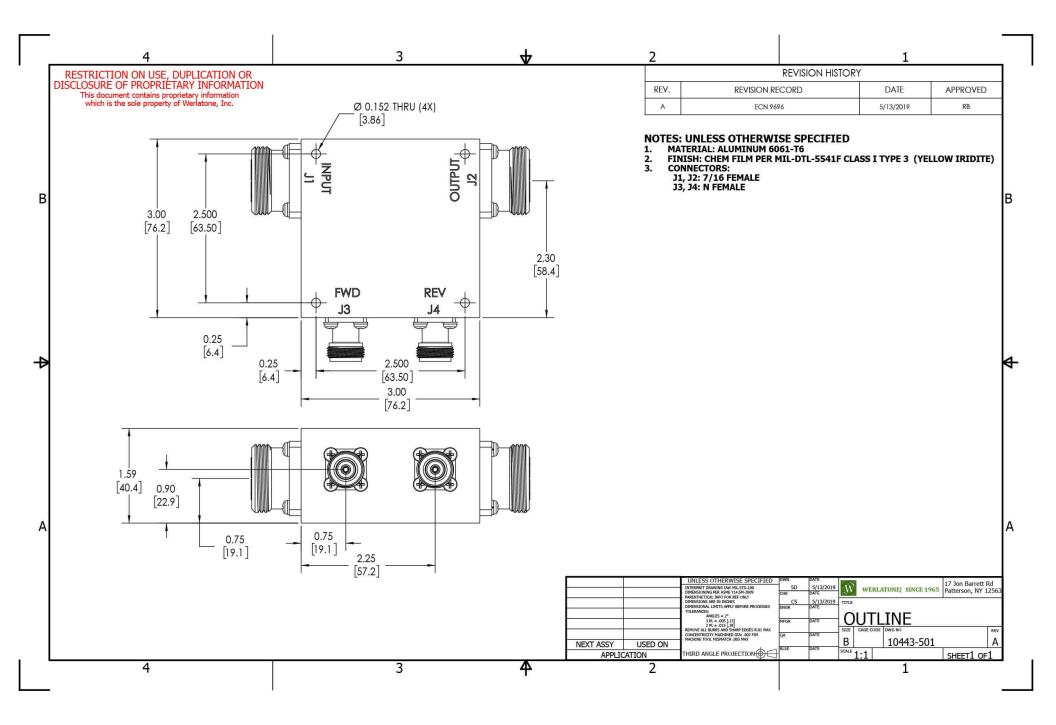
600

700

800

Frequency (MHz)

900



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