



C10166

## **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:** 700 - 4200 MHz Frequency: Power: 2000 W CW Coupling: 60 ± 1.0 dB Max. Insertion Loss: 0.2 dB Max. Flatness: ± 1.0 dB Max. VSWR (ML): 1.35:1 Max. 18 dB Min. Directivity: Mechanical Specifications: Connectorized Type: 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 -60°C to +85°C Storage Temperature: Humidity: 95% Non-Condensing Size: 3.0 x 3.0 x 1.59" **Connector Configurations:** Fwd (J3) Rev (J4) Model Input (J1) Output (J2) C10166-20 7/16 Female 7/16 Female N Female N Female C10166-22 7/16 Female 7/16 Female SMA SMA C10166-23 7/16 Female 7/16 Female BNC BNC N Female C10166-627 7/16 Female a 7/16 Male N Female C10166-727 7/16 Male 7/16 Female N Female N Female C10166-728 7/16 Male 7/16 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. 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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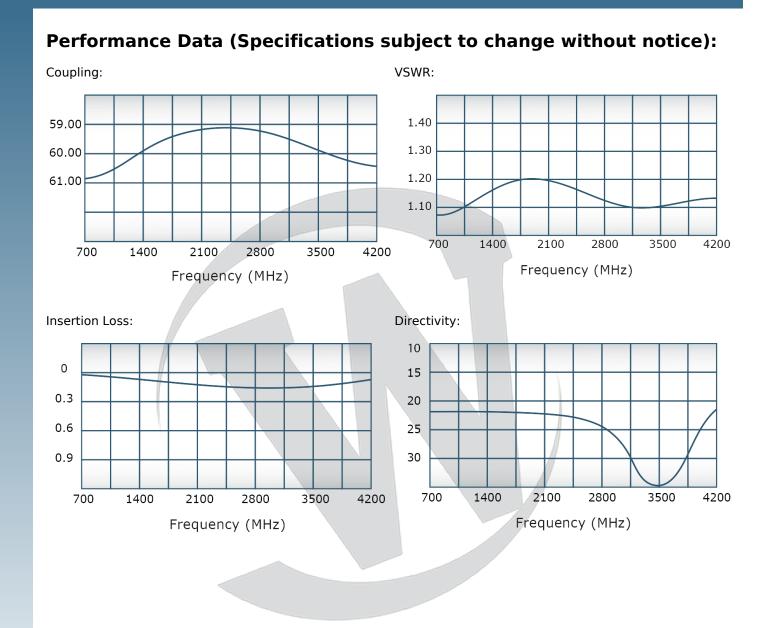
Werlatone, Inc. 17 Ion Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



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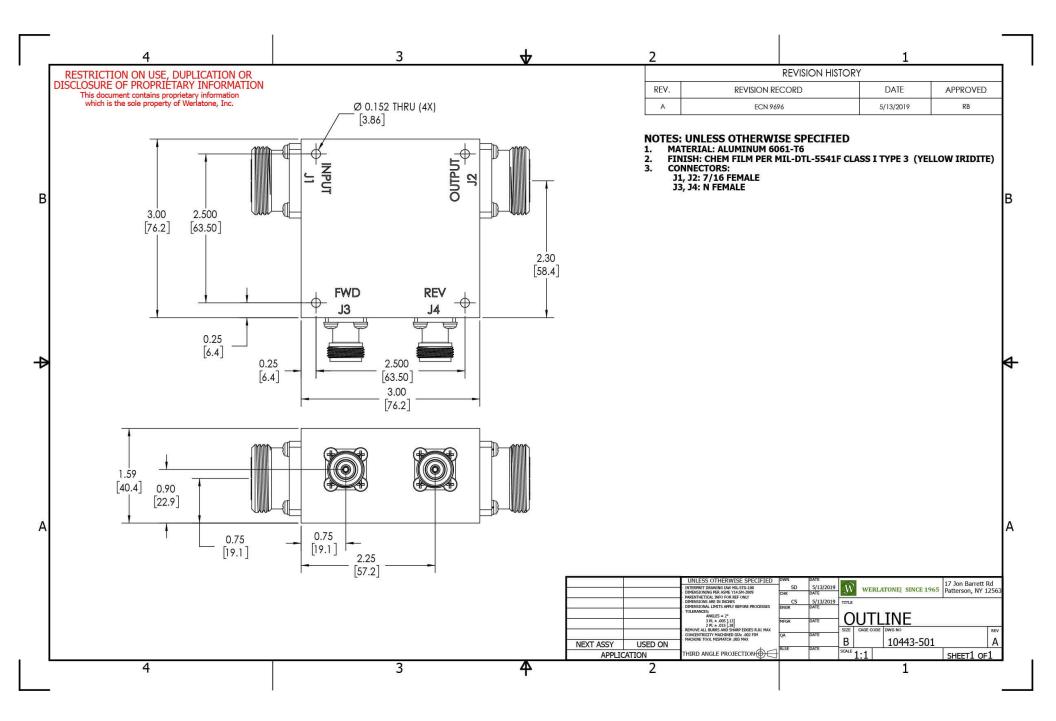
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C10166 Rev.-



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