

PRODUCT DATA SHEET



C8991

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 - 1000 MHz Power: 50 W CW Couplina: 30 ± 1.0 dB Max. Insertion Loss: 1.2 dB Max. Flatness: ± 0.5 dB Max. VSWR (ML): 1.10:1 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 2.28 x 1.69" **Connector Configurations:** Input (J1) Output (J2) Fwd (J3) Rev (J4) Model C8991-10 N Female N Female N Female N Female C8991-12 N Female N Female SMA. SMA N Female C8991-13 N Female BNC BNC C8991-102 SMA SMA SMA SMA C8991-10STS Stainless Steel N Stainless Steel N Stainless Steel N Stainless Steel N Female Female Female Female Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent

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

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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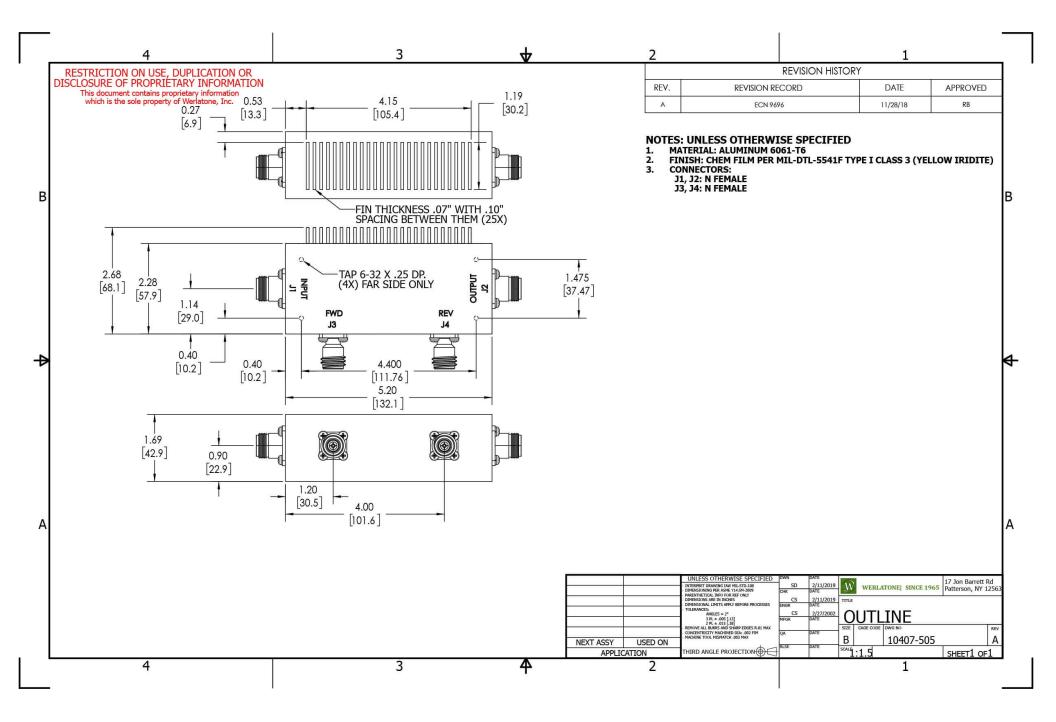
VSWR: Coupling: 1.40 29.5 1.30 30.0 1.20 30.5 1.10 0.01 200 400 600 800 1000 0.01 200 400 600 800 1000 Frequency (MHz) Frequency (MHz) Insertion Loss: Directivity: 0 20 0.6 25 30 1.2 35 1.8 400 600 0.01 200 800 1000 0.01 400 600 800 1000 200 Frequency (MHz) Frequency (MHz)

Performance Data (Specifications subject to change without notice):

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C8991 Rev.-



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