

PRODUCT DATA SHEET



C7646

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: 1 - 500 MHz Power: 30 W CW Couplina: 20 ± 1.0 dB Max. Insertion Loss: 3.0 dB Max. Flatness: ± 1.0 dB Max. VSWR (ML): 1.30:1 Max. Directivity: 20 dB Min. Mechanical Specifications: Type: Connectorized Material: Aluminum 6061-T6 Suface 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 2.67 x 1.69" **Connector Configurations:** Input (J1) Output (J2) Fwd (J3) Rev (J4) Model C7646-10 N Female N Female N Female N Female C7646-12 N Female N Female SMA SMA C7646-13 N Female N Female BNC BNC C7646-102 SMA SMA SMA SMA C7646-200 BNC BNC BNC BNC

* Insertion Loss includes 0.08 dB Coupling Loss.

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.

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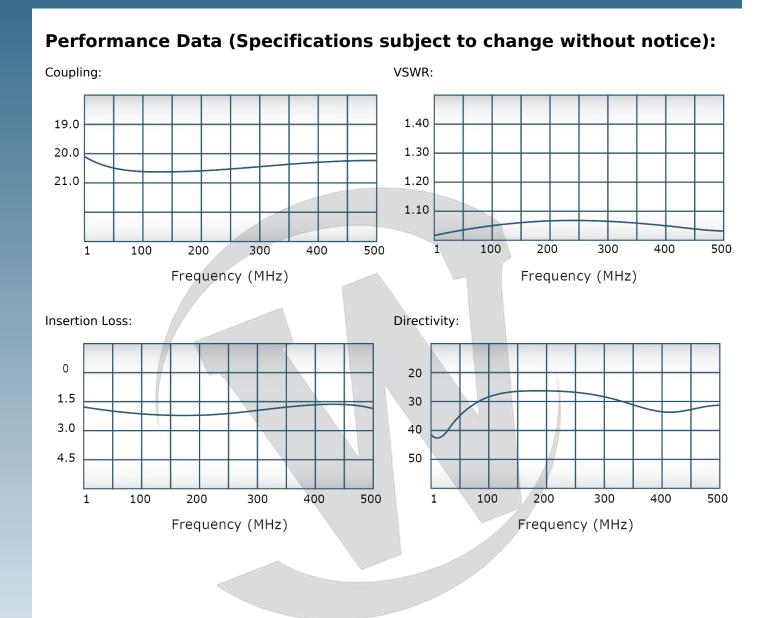
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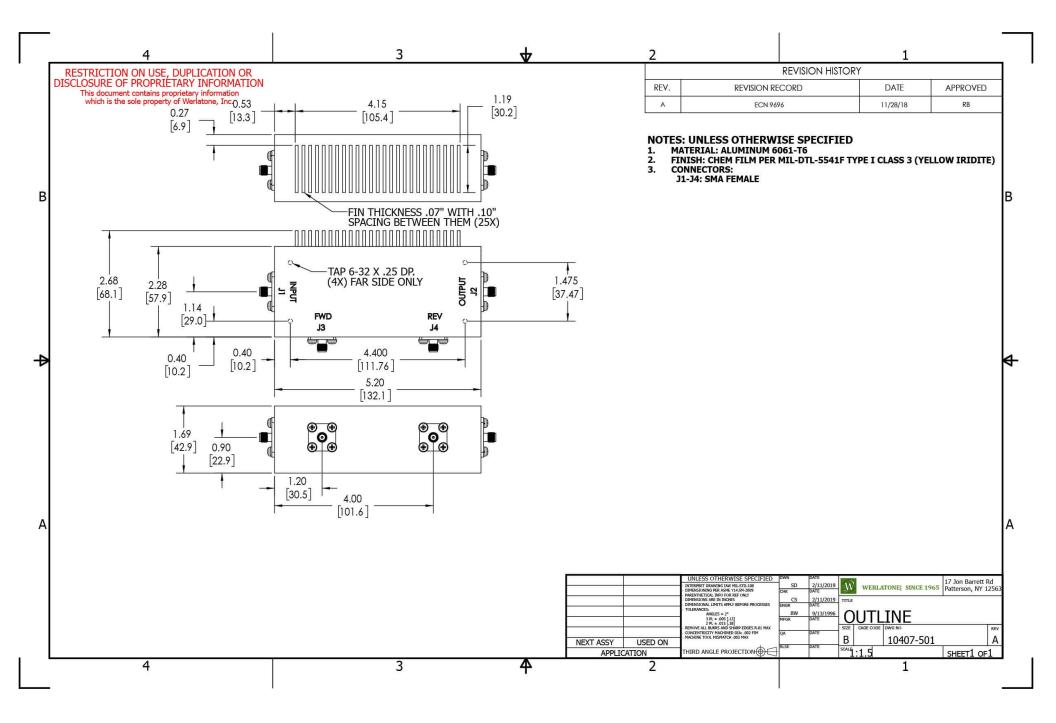
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C7646 Rev.-



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