



PRODUCT DATA SHEET C7881

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: 20 - 500 MHz Power: 25 W CW

Coupling: $30 \pm 1.0 \text{ dB Max.}$ Insertion Loss: 0.75 dB Max.Flatness: $\pm 1.0 \text{ dB Max.}$ VSWR (ML): 1.20:1 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 $+75^{\circ}\text{C}$ Storage Temperature: -60°C to $+85^{\circ}\text{C}$ Humidity: 95% Non-Condensing

Size: 2.7 x 1.5 x 1.1"

Connector Configurations:

Model Input (J1) Output (J2) Fwd (J3) Rev (J4) C7881-10 N Female N Female N Female N Female C7881-12 N Female N Female SMA SMA C7881-102 SMA SMA 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®, 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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Performance Data (Specifications subject to change without notice):

Coupling: VSWR:

29.0

30.0

31.0

1.40

1.30

1.20

1.10

20

116

212

308

404

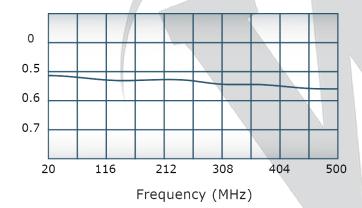
500

Frequency (MHz)

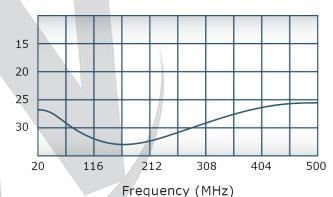
1.40 1.30 1.20 1.10 20 116 212 308 404 500

Frequency (MHz)

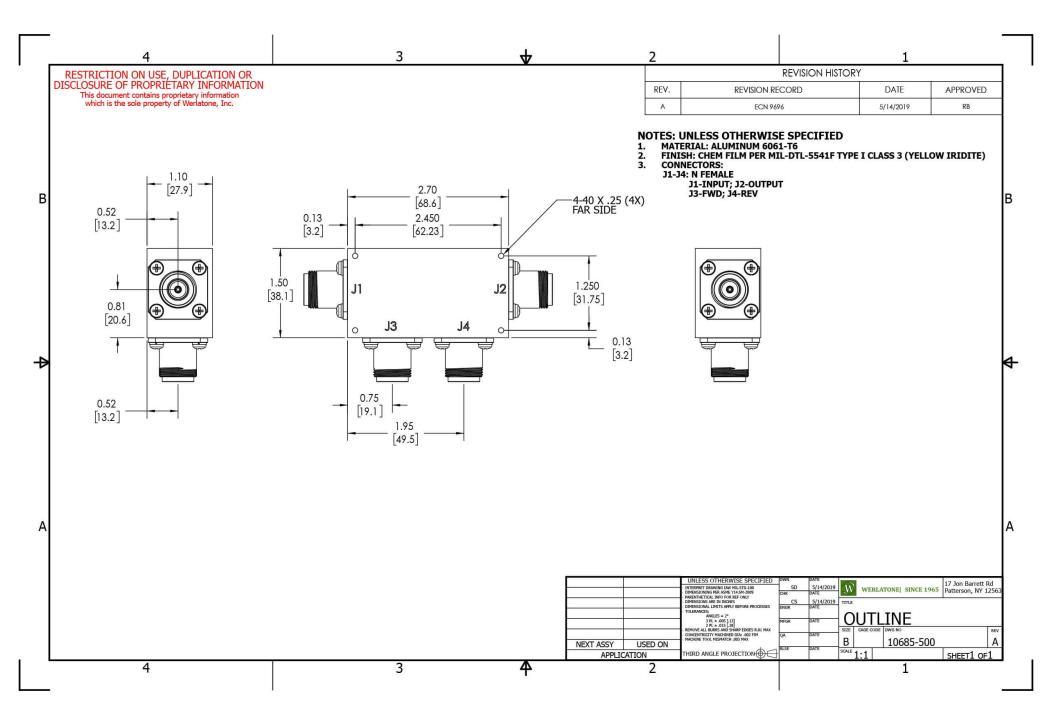
Insertion Loss:



Directivity:



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