



PRODUCT DATA SHEET C1804

**4-Port Bi-Directional Coupler**: Similar to the 3-Port Uni-Directional Coupler, except that both ends of the coupled

line serve as coupled ports. Convenient for simultaneously monitoring both forward and reverse power. The directivity of this coupler design is, however, dependent upon well matched 50 Ohm loads on the coupled ports.

#### Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

#### **Electrical Specifications:**

 $\begin{array}{lll} \mbox{Frequency:} & 2 - 32 \mbox{ MHz} \\ \mbox{Power:} & 1000 \mbox{ W CW} \\ \mbox{Coupling:} & 20 \pm 1.0 \mbox{ dB Max.} \\ \mbox{Insertion Loss:} & 0.2 \mbox{ dB Max.} \\ \mbox{Flatness:} & \pm 0.5 \mbox{ dB Max.} \\ \mbox{VSWR (ML):} & 1.25:1 \mbox{ Max.} \\ \mbox{Directivity:} & 20 \mbox{ dB Min.} \end{array}$ 

### **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: 3.0 x 3.0 x 1.87"

#### Port Configurations:

ModelInput (J1)Output (J2)Fwd (J3)Rev (J4)C1804-10N FemaleN FemaleN FemaleN Female

**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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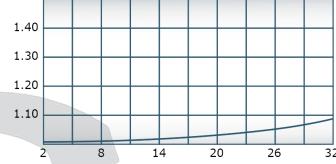


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# Performance Data (Specifications subject to change without notice):

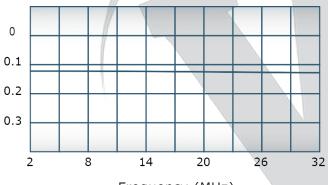
2 8 14 20 26 32

14 20 Frequency (MHz) VSWR:



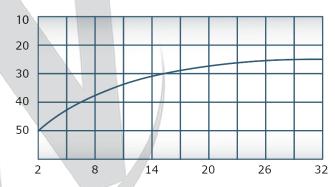
Frequency (MHz)

#### Insertion Loss:

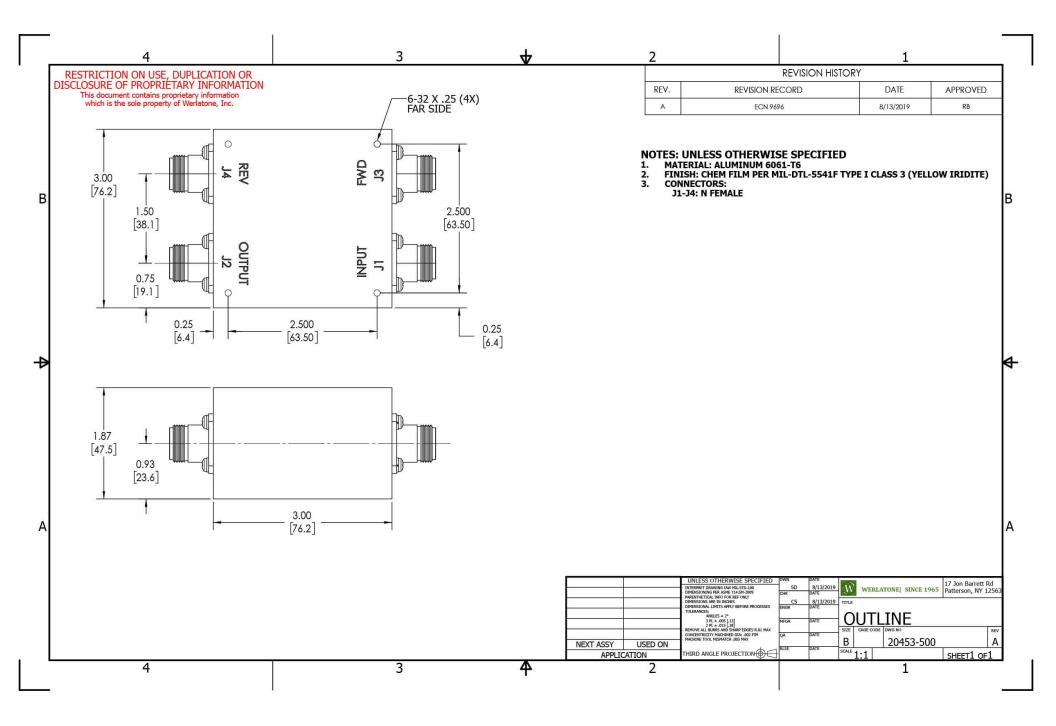


Frequency (MHz)

## Directivity:



Frequency (MHz)



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