

T DATA SHEET

C12298

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:

Frequency: 20 - 1000 MHz
Power: 250 W CW
Coupling: 50 ± 1.0 dB Max.
Insertion Loss: 0.35 dB Max.
Flatness: ± 0.65 dB Max.
VSWR (ML): 1.25:1 Max.
Directivity: 20 dB Min.

Mechanical Specifications:

Type: Non-Connectorized (SMT)
Surface Finish: ENIG IAW IPC 4552
Operating Temperature: -55°C to +85°C
Storage Temperature: -55°C to +85°C
Size: 1.35 x 1.0 x 0.15"

Connector Configurations:

Model	J1	J2	J3	J4
C12298	Input	Output	Forward	Reverse

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.

Performance Data (Specifications subject to change without notice):

Coupling:

VSWR:

Insertion Loss:

Directivity:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com