


**PRODUCT 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.

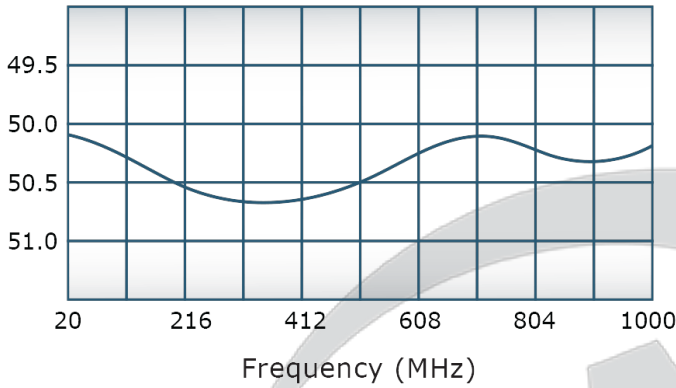


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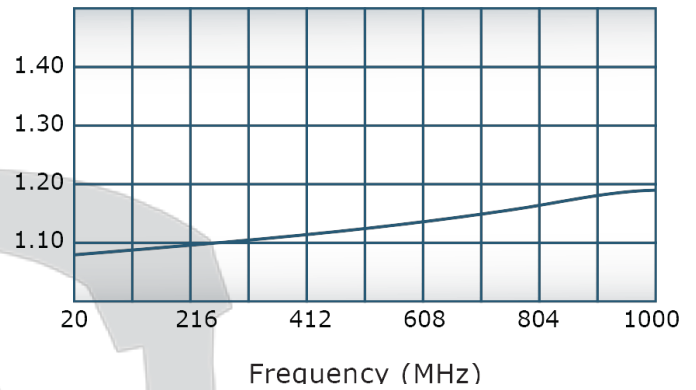
C12298

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

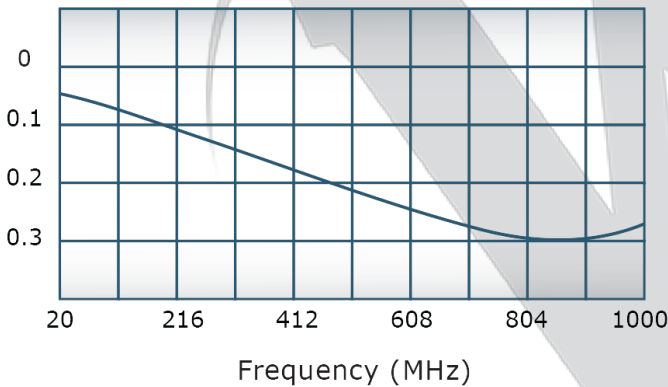
Coupling:



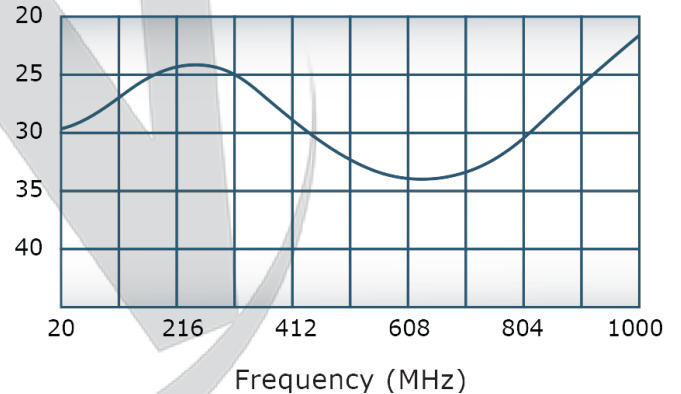
VSWR:



Insertion Loss:



Directivity:



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