



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.



WERLATONE

Model C12298

Directional Couplers Non-Connectorized

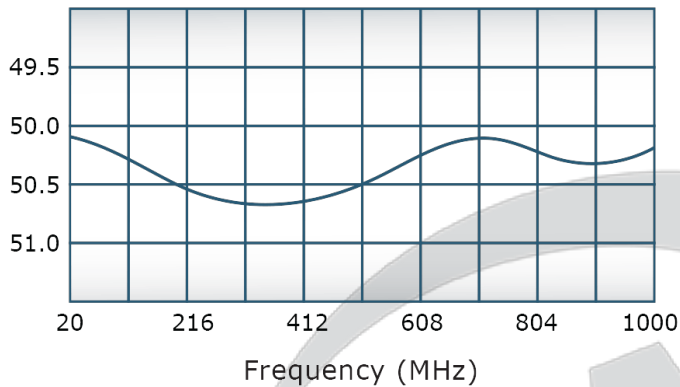


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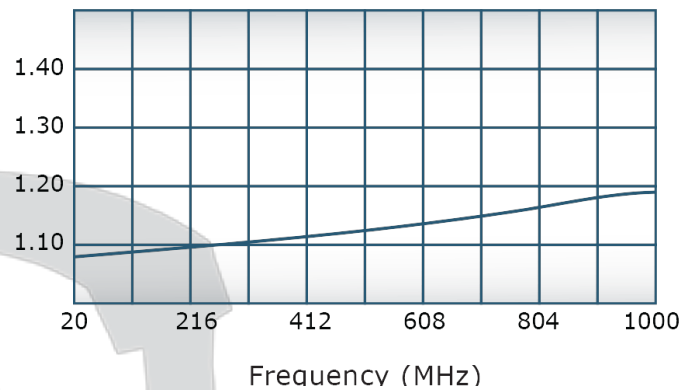
C12298

Performance Data (Specifications subject to change without notice):

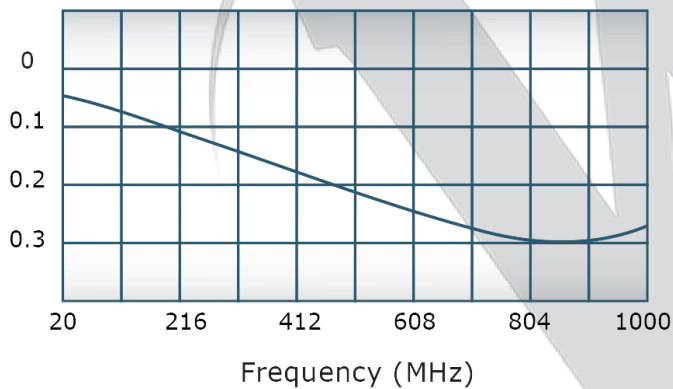
Coupling:



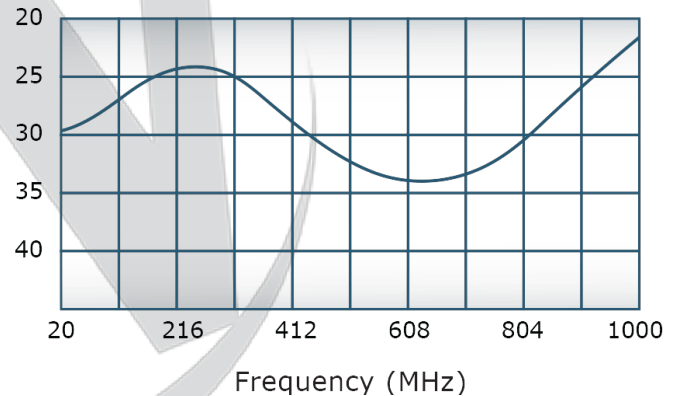
VSWR:



Insertion Loss:



Directivity:



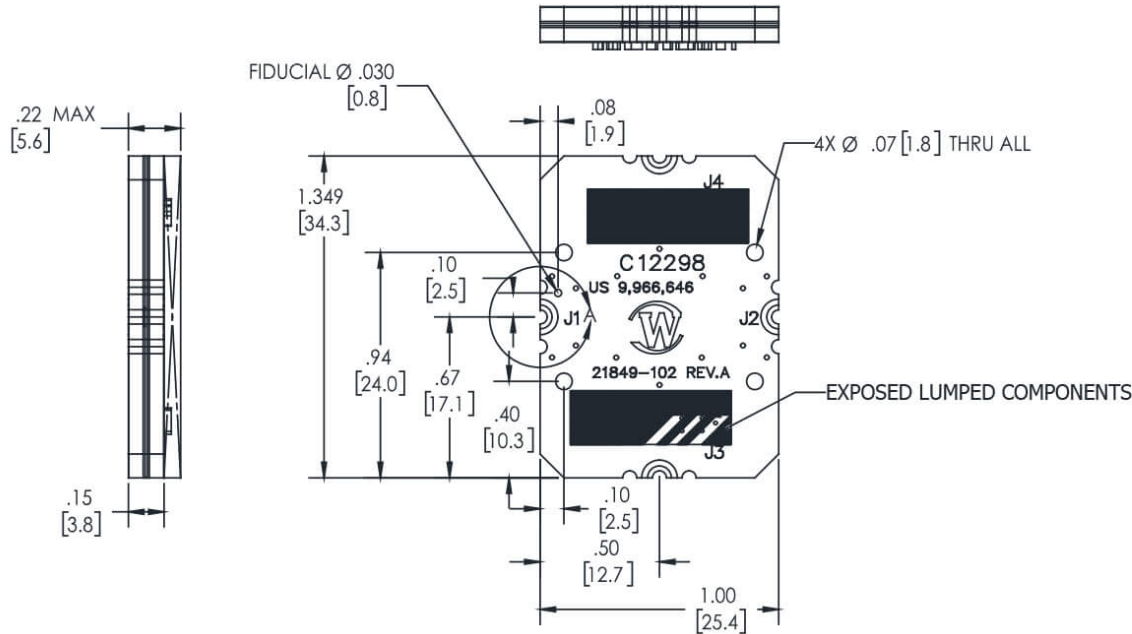
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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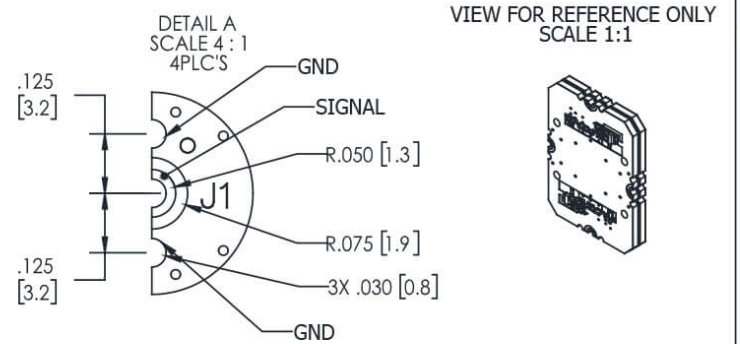
REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	2/11/2021	CS
A	ECN10008	3/2/2021	CS
B	ECN10476	7/27/2023	PR

B



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- NOTES: UNLESS OTHERWISE SPECIFIED
1. SURFACE MOUNT UNIT.
2. FINISH: ENIG IAW IPC 4552.
3. PORT CONFIGURATION: J1: INPUT
J2: OUTPUT
J3: FORWARD
J4: REVERSE



B

A

UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
• INTERPRET DRAWING IAW MIL-STD-100		MB	1/26/2021	WERLATONE SINCE 1965	
• DIMENSIONING FOR ASME Y14.5M-2009		CHK	DATE		
• PARENTHESES FOR REF ONLY		CS	2/11/2021	TITLE	
• DIMENSIONS ARE IN INCHES (mm)		ENGR	DATE		
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MB	2/11/2021	OUTLINE	
• TOLERANCES:		INFR	DATE		
ANGLES: 45°		QA	DATE	SIZE CAGE CODE DWG NO	
3 PL ± .005 [0.13]		DATE	DATE		
2 PL ± .015 [0.4]		DATE	DATE	REV	
• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX		DATE	DATE		
• CONCENTRICITY MACHINED DIA: .002 FIM		DATE	DATE	SCALE	
• MACHINE TOOL MISMATCH .003 MAX		DATE	DATE		
APPLICATION		THIRD ANGLE PROJECTION		SHEET 1 OF 1	

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