



WERLATONE

Model C12298

Directional Couplers Non-Connectorized



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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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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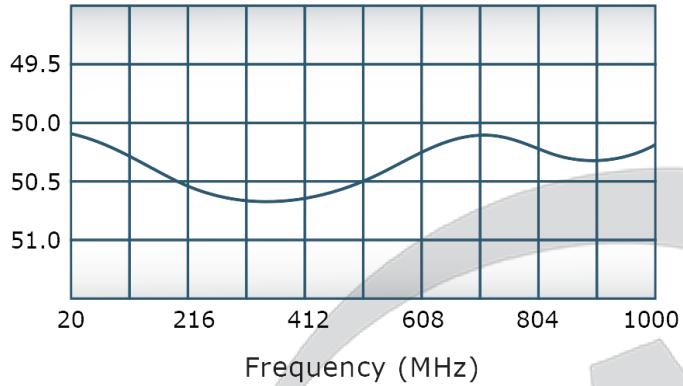


PRODUCT DATA SHEET

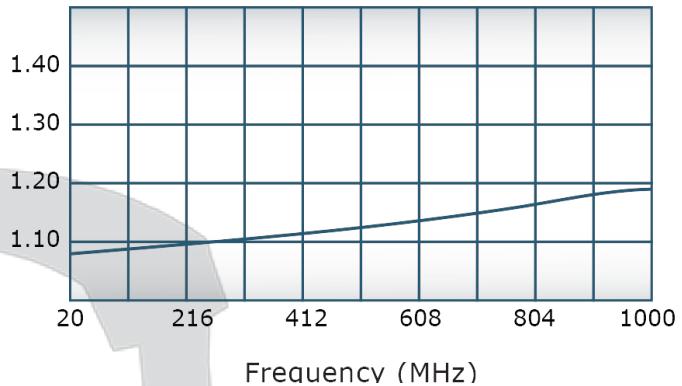
C12298

Performance Data (Specifications subject to change without notice):

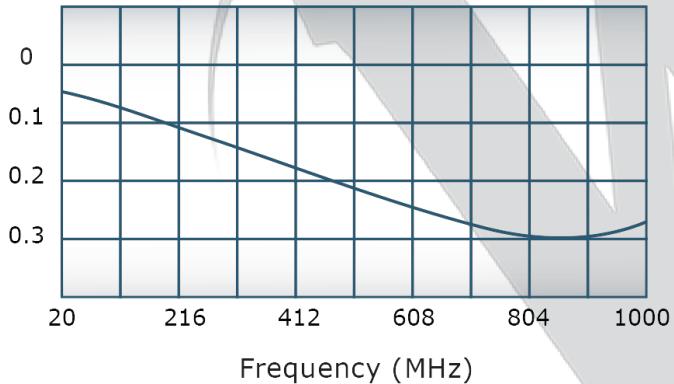
Coupling:



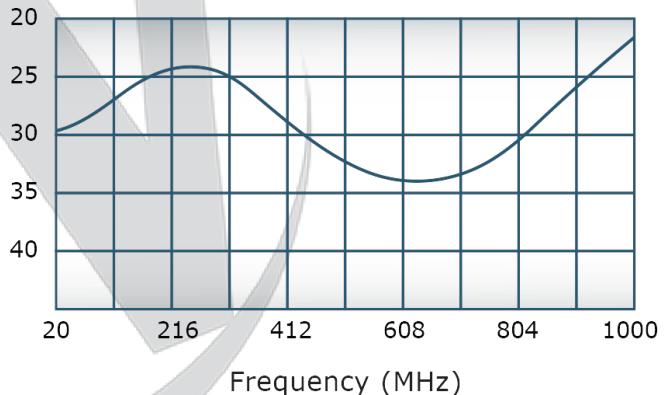
VSWR:



Insertion Loss:



Directivity:



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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

A

DETAIL A
SCALE 4:1

4PLC'S

GND

SIGNAL

R.050 [1.3]

J1

R.075 [1.9]

3X .030 [0.8]

.125 [3.2]

.125 [3.2]

GND

VIEW FOR REFERENCE ONLY
SCALE 1:1

B

4

3

2

11

		UNLESS OTHERWISE SPECIFIED	OWN	DATE	 WERLATON SINCE 1965 TITLE	17 Jon Barrett Rd		
		• INTERFERING DRAWINGS ARE FOR INFORMATION ONLY • DIMENSIONING FOR ASME Y14.5M-2009 • PARENTHEtical INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES [mm] • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES	MB	1/26/2021		Patterson, NY 12563		
		ANGLES 1/2°	CHK	DATE				
		1 PL. & .005 [13] 12 PL. & .005 [30]	CS	2/11/2021				
		• REMOVE ALL BURRS AND SHARP EDGES. R.01 MAX: • CONCENTRICITY MACHINED DIA .002 MM • MACHINE TOOL HESIPIATCH .003 MM	ENGR	DATE				
21849-300	C12298	QA	DATE		SIZE	CAGE CODE	DWS NO	REV
NEXT ASSY	USED ON	RILSE	DATE		B	28812	21849-500	B

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