



PRODUCT DATA SHEET

C10117

4-Port Dual Directional Coupler employs two, 3-Port Uni-Directional Couplers, internally connected, in tandem, providing measurement of both forward and reverse power. Ideal for simultaneously monitoring a system's forward and reverse power and for reflectometer measurements. Unlike the Bi-Directional Coupler, the directivity of the Dual Directional Coupler is unaffected by the loads on the coupled ports.

Features:

High Power

Wide Bandwidths

Small Size

Flat Coupling

Custom Designs Available

Electrical Specifications:

Frequency: 700 - 6000 MHz

Power: 250 W CW

Coupling: 40 ± 1.0 dB Max.

Insertion Loss: 0.2 dB Max.

Flatness: ± 1.0 dB Max.

VSWR (ML): 1.30:1 Max.

VSWR (CP): 2.0:1 Max.

Directivity: 15 dB Min. (20 dB Typical)

Mechanical Specifications:

Type: Connectorized

Material: Aluminum 6061-T6

Surface Finish: Chem. Film Per MIL-DTL-5541F Type II
Class 3 (Clear Iridite)

Operating Temperature: -55°C to +75°C

Storage Temperature: -60°C to +85°C

Humidity: 95% Non-Condensing

Size: 2.0 x 2.0 x 1.06"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10117-10	N Female	N Female	N Female	N Female
C10117-12	N Female	N Female	SMA	SMA
C10117-14	N Female	N Female	BNC	BNC
C10117-610	N Female	N Male	N Female	N Female
C10117-612	N Female	N Male	SMA	SMA
C10117-714	N Male	N Female	N Female	N 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.



WERLATONE

Model C10117

Connectorized Directional Couplers

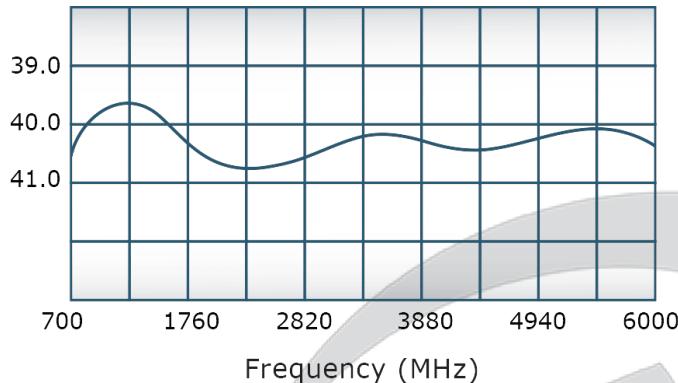


PRODUCT DATA SHEET

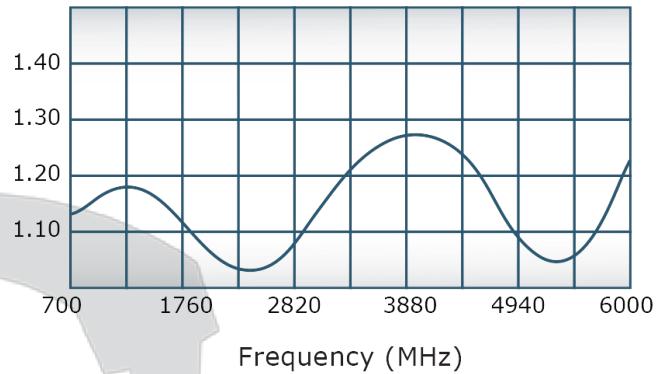
C10117

Performance Data (Specifications subject to change without notice):

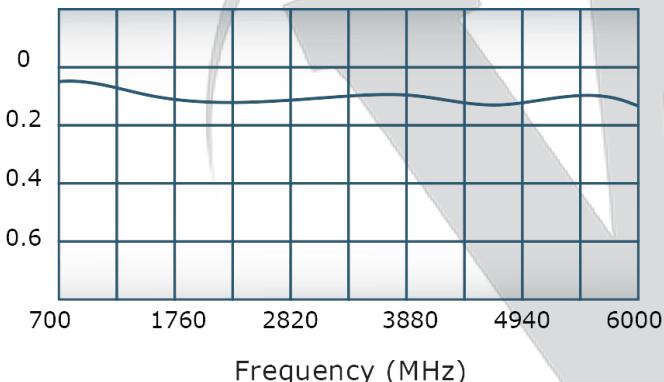
Coupling:



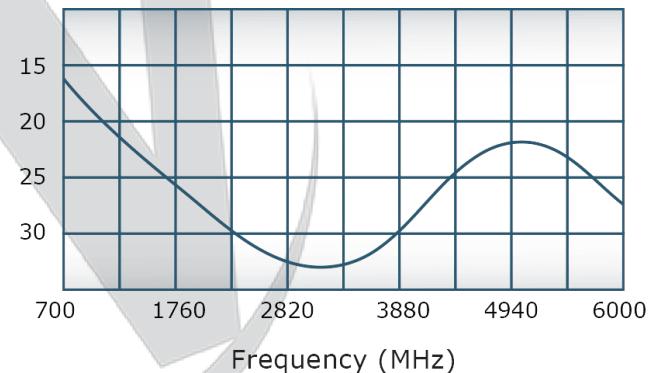
VSWR:



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

4

3

2

RESTRICTION ON USE, DUPLICATION OR
DISCLOSURE OF PROPRIETARY INFORMATION

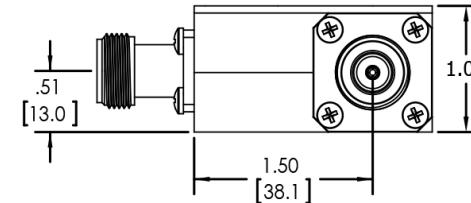
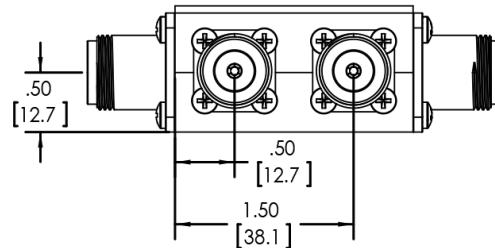
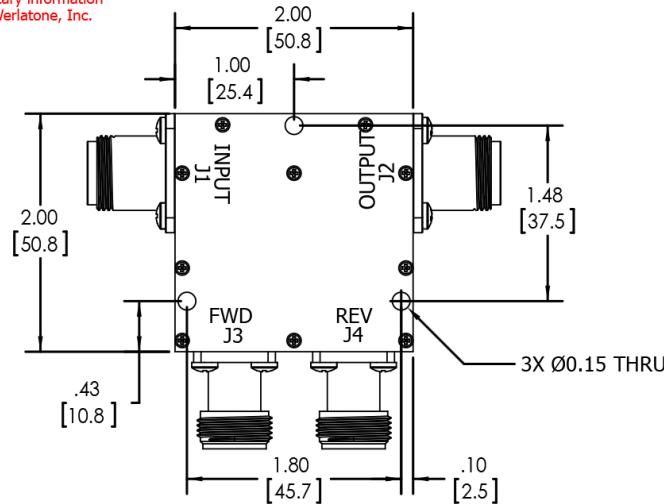
This document contains proprietary information
which is the sole property of Werlatone, Inc.

REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
	PRE-RELEASE		

B

E



A

11

4

2

3

1

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