



PRODUCT DATA SHEET

C10537

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 - 4200 MHz
Power:	700 W CW
Coupling:	60 \pm 1.0 dB Max.
Insertion Loss:	0.2 dB Max.
Flatness:	\pm 1.0 dB Max.
VSWR (ML):	1.35:1 Max.
Directivity:	18 dB Min.

Mechanical Specifications:

Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F
	Type II Class 3 (Clear Iridite)
	RoHS Compliant Available
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Humidity:	95% Non-Condensing
Size:	2.15 x 2.0 x 1.36"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10537-20	7/16 Female	7/16 Female	N Female	N Female
C10537-22	7/16 Female	7/16 Female	SMA	SMA
C10537-727	7/16 Male	7/16 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 C10537

Connectorized Directional Couplers

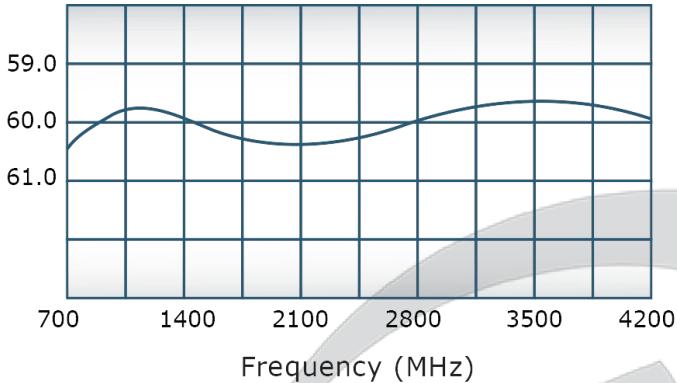


PRODUCT DATA SHEET

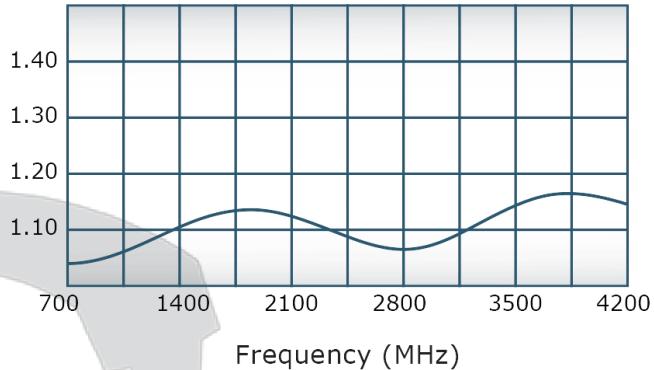
C10537

Performance Data (Specifications subject to change without notice):

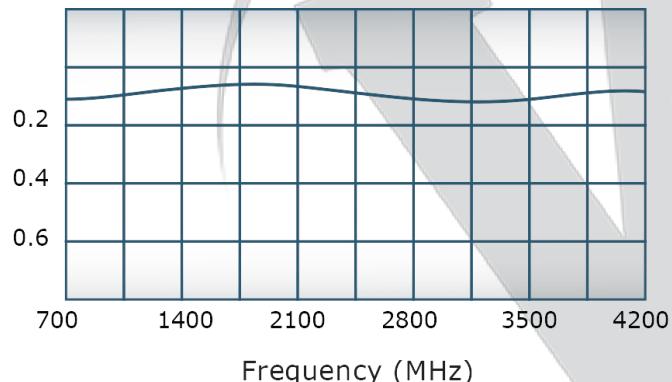
Coupling:



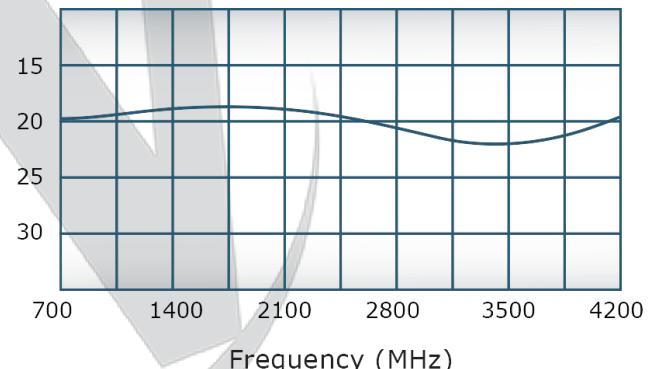
VSWR:



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

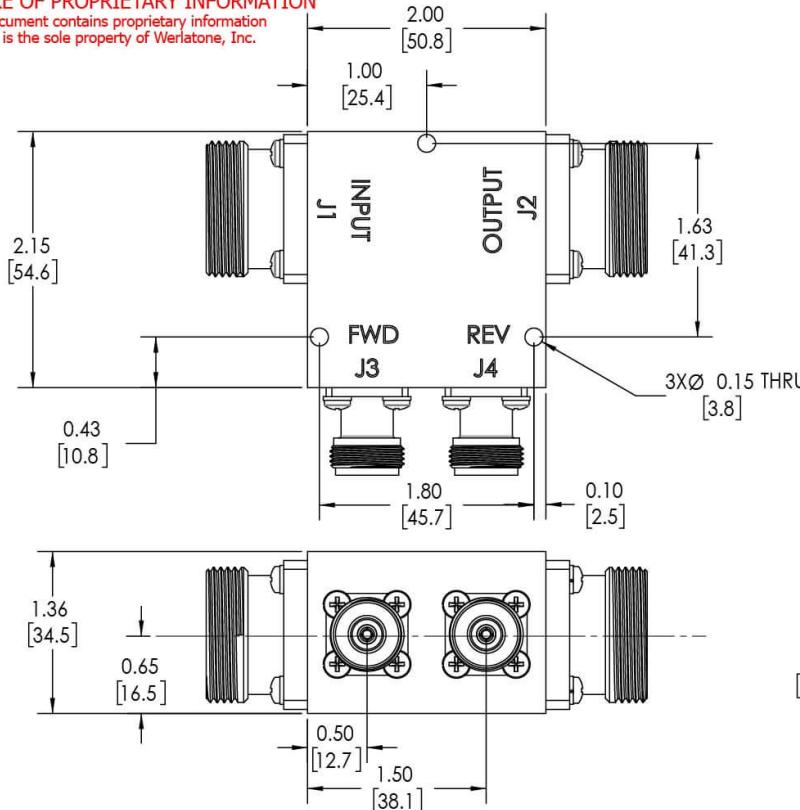
3

2

1

**RESTRICTION ON USE, DUPLICATION OR
DISCLOSURE OF PROPRIETARY INFORMATION**

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

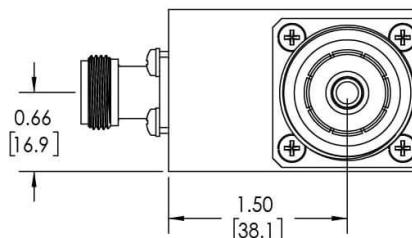


REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL-RELEASE	5/8/2015	BW
A	ECN 9696	3/25/19	RB

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:
J1,J2: 7/16 FEMALE
J3,J4: N FEMALE



UNLESS OTHERWISE SPECIFIED	DN	DATE	17 Jon Barrett Rd
INTERPRET DRAWING JAW MIL-STD-100	SD	3/25/2019	WERLATONE SINCE 1965
UNLESS OTHERWISE SPECIFIED AS 14-5M-2009	CHK	DATE	Patterson, NY 12563
PARENTHETICAL: THIS IS FOR REFERENCE ONLY	CS	3/25/2019	
DIMENSIONAL LIMITS ARE IN INCHES	ENGR	DATE	
TOLERANCES	MFGR	DATE	
ANGLES $\pm 2^\circ$	QA	DATE	
3 RL $\pm .005$ [1.27]	RELEASE	DATE	
2 RL $\pm .012$ [3.05]			
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
CONCENTRICITY MACHINED DIA. .002 FIM			
MACHINE TOOL MISMATCH .003 MAX			
NEXT ASSY	USED ON	SIZE	REV
APPLICATION	THIRD ANGLE PROJECTION	CAGE CODE	
		DWG NO	
		B	A
		21316-500	
		SCALE	1:1
			SHEET 1 OF 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