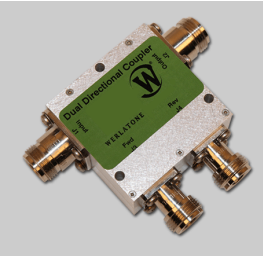
WERLATONE

Model C10559



PRODUCT DATA SHEET **C10559**

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:	500 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.
Directivity:	15 dB Min.

Mechanical Specifications:

Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available
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''

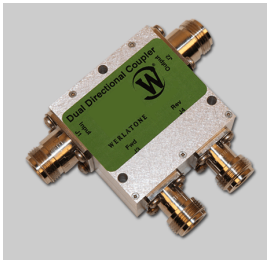
Connector Configurations:

Model	**Input (J1)**	**Output (J2)**	**Fwd (J3)**	**Rev (J4)**
C10559-10	N Female	N Female	N Female	N Female
C10559-12	N Female	N Female	SMA	SMA
C10559-714	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.

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

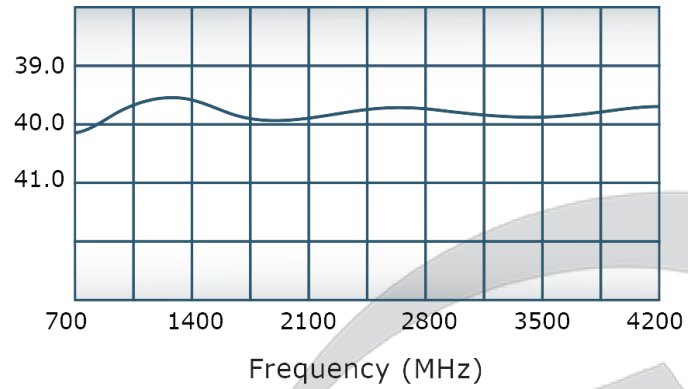
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



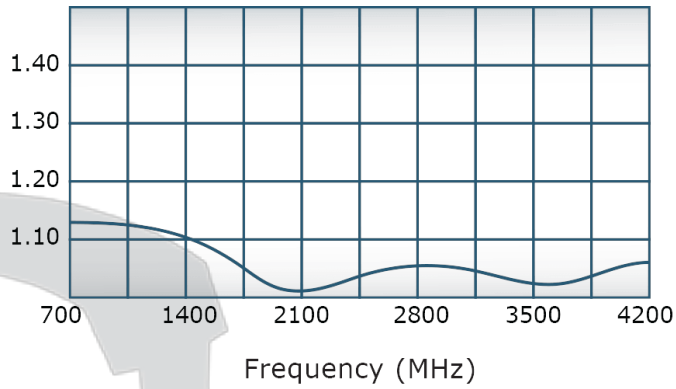
PRODUCT DATA SHEET **C10559**

Performance Data (Specifications subject to change without notice):

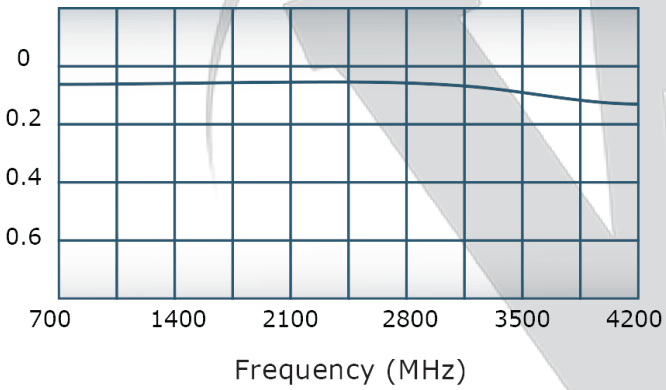
Coupling:



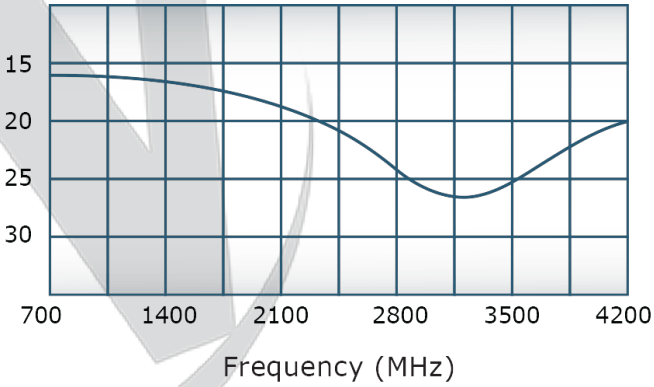
VSWR:



Insertion Loss:



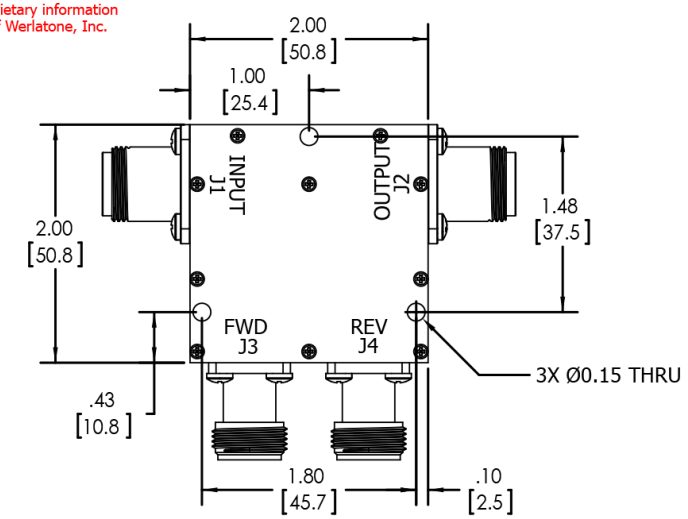
Directivity:

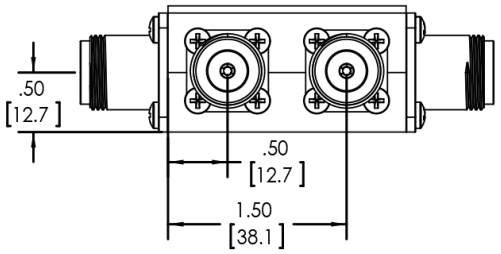


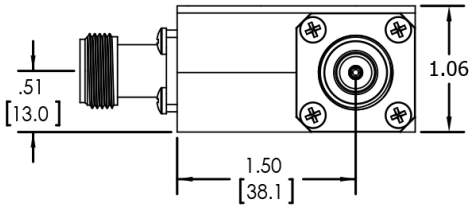
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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		







		UNLESS OTHERWISE SPECIFIED	DWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		· INTERPRET DRAWING IAW MIL-STD-100	SC	9/30/2014			
		· DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE			
		· PARENTHETICAL INFO FOR REF ONLY	CS	9/30/2014			
		· DIMENSIONS ARE IN INCHES [mm]	ENGR	DATE	TITLE		
		· DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	BW	9/30/2014	OUTLINE		
		· TOLERANCES:	MFGR	DATE			
		ANGLES ± 2°					
		3 PL ± .005 [.13]	QA	DATE	SIZE	CAGE CODE	DWG NO
		2 PL ± .015 [.4]			B	28812	21250-500
		· REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	RLSE	DATE			
		· CONCENTRICITY MACHINED DIA: .002 FIM			SCALE		
		· MACHINE TOOL MISMATCH .003 MAX			1:1		
	C10117						
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION					
APPLICATION							

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