



## PRODUCT DATA SHEET

C8858

**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: 10 - 1000 MHz  
 Power: 250 W CW  
 Coupling:  $40 \pm 1.0$  dB Max.  
 Insertion Loss: 0.4 dB Max.  
 Flatness:  $\pm 0.5$  dB Max.  
 VSWR (ML): 1.30:1 Max.  
 Directivity: 20 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  
 Weight: 2 oz.  
 Size: 2.086 x 1.16 x 0.565"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C8858-102	SMA	SMA	SMA	SMA

**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 C8858

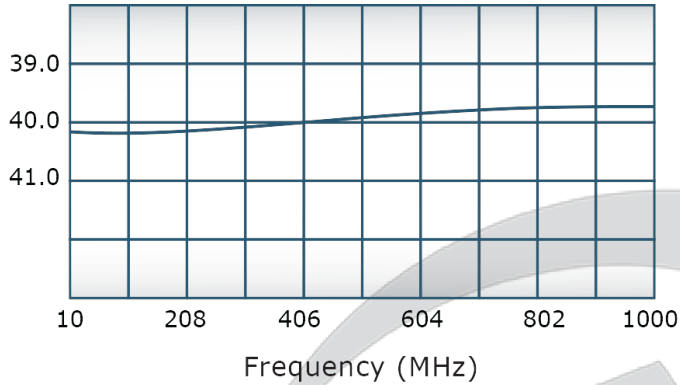


## PRODUCT DATA SHEET

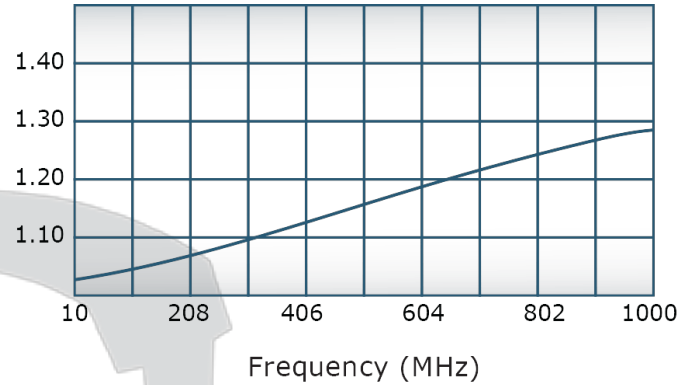
C8858

### Performance Data (Specifications subject to change without notice):

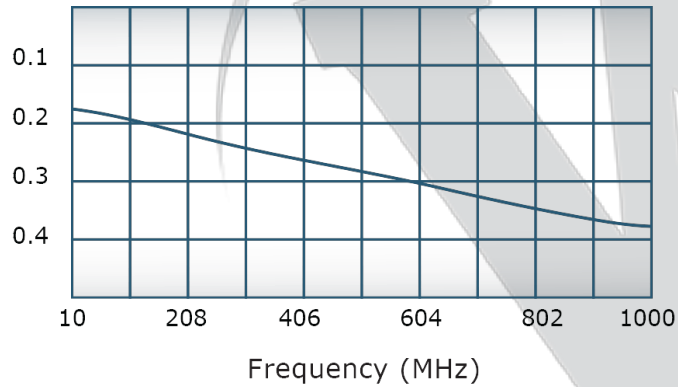
Coupling:



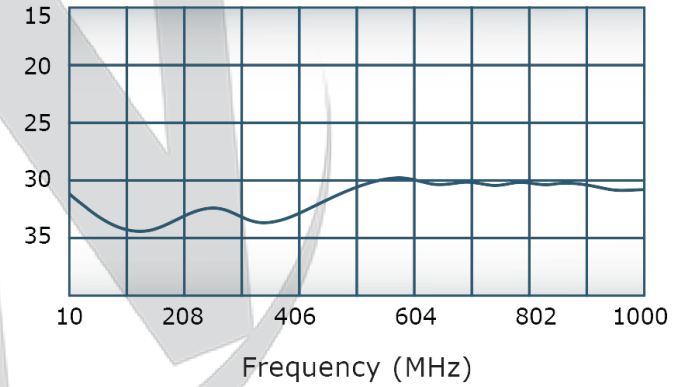
VSWR:



Insertion Loss:



Directivity:



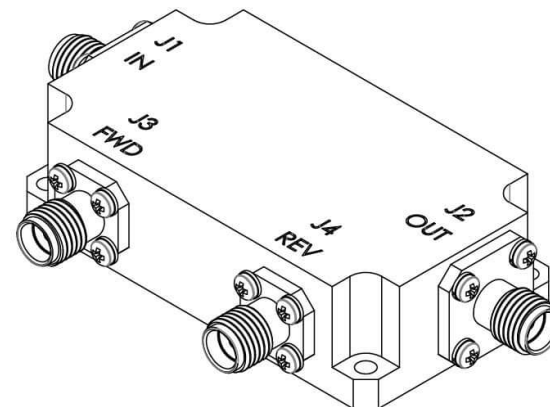
**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of Werlatone, Inc.

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



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



REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	3/23/2011	BW
A	ECN 9696	5/15/2019	RB



1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)
3. CONNECTORS:  
J1-J4: SMA FEMALE

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 <b>WERLATONE</b> SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IAW MIL-STD-100		SD	5/14/2019		TITLE <b>OUTLINE</b>	REV
		DIMENSIONING PER ASME Y14.5-2009		CHK	DATE			
		PARENT/CHILD DWG FOR BEST COPY DIMENSIONS ARE IN INCHES		CS	5/14/2019			
		DIMENSIONAL LIMITS APPLY BEFORE PROCESSES TOLERANCES:		ENGR	DATE	SIZE	GAGE CODE	DWG NO
		ANGLES = 2° 3 PL. ± .005 [13] 2 PL. ± .015 [30]		REFR	DATE	20724-500		A
		REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CHAMFER/CHAMF MACHINED DIA. .002 FIN MACHINE TOOL RESTRICTION .001 MAX		QA	DATE			
NEXT ASSY USED ON		THIRD ANGLE PROJECTION 		RLSE	DATE	SCALE 2:1		SHEET 1 OF 1
APPLICATION								

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