



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 ± 1.0 dB Max.
Insertion Loss: 0.4 dB Max.
Flatness: ± 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

Connectorized Directional Couplers

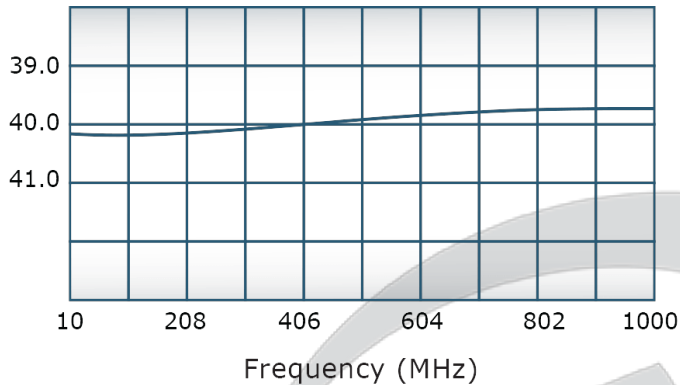


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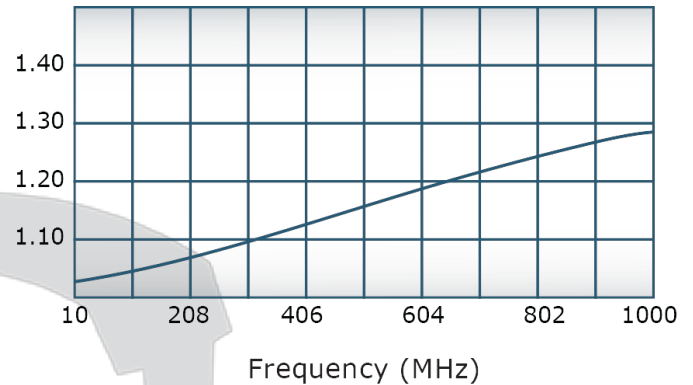
C8858

Performance Data (Specifications subject to change without notice):

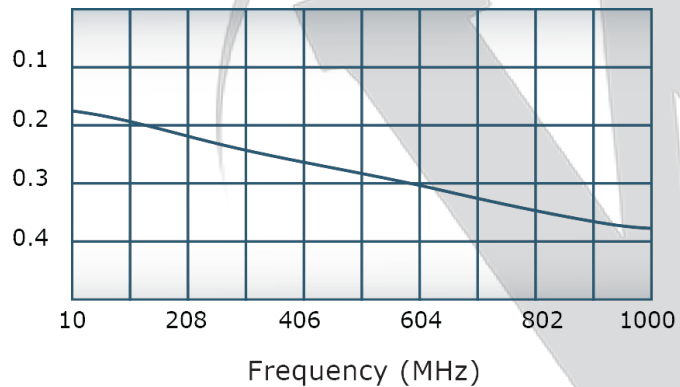
Coupling:



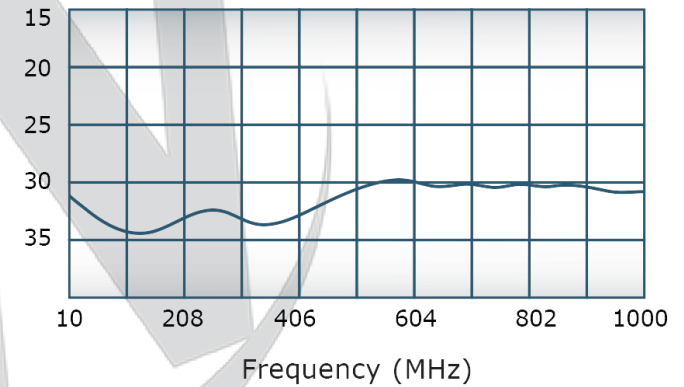
VSWR:



Insertion Loss:



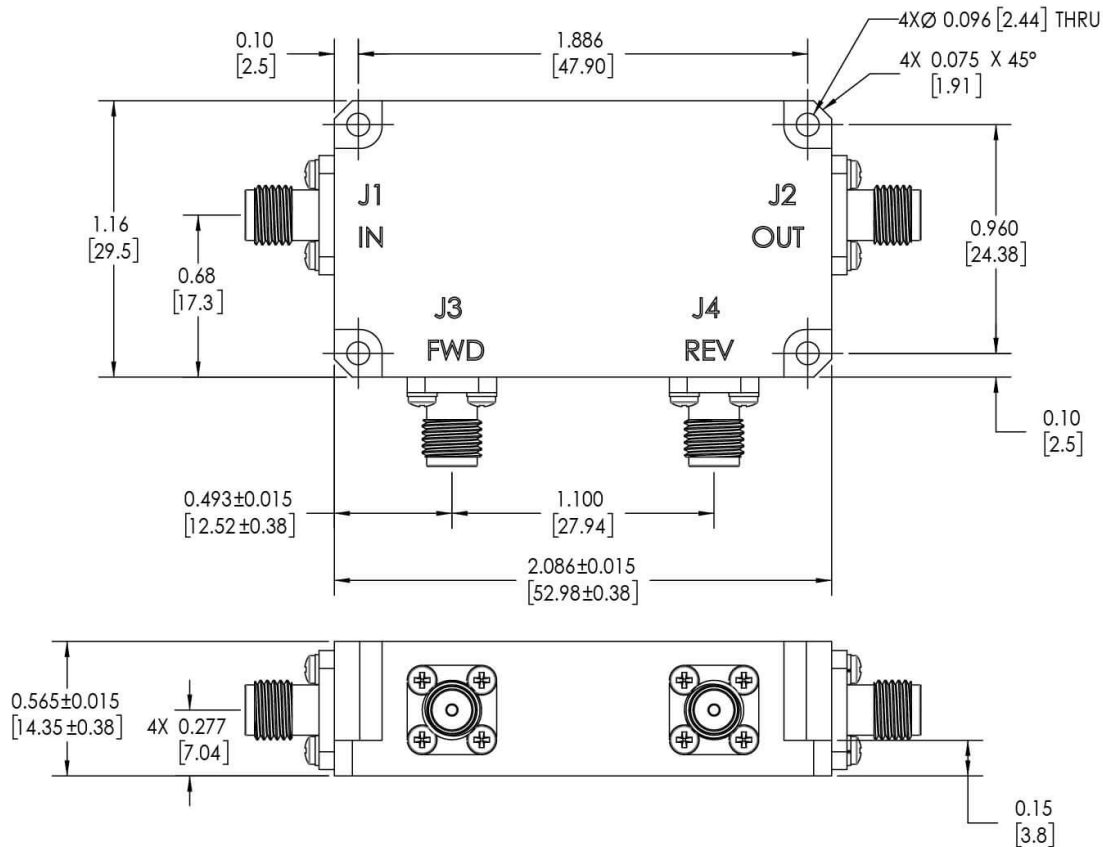
Directivity:



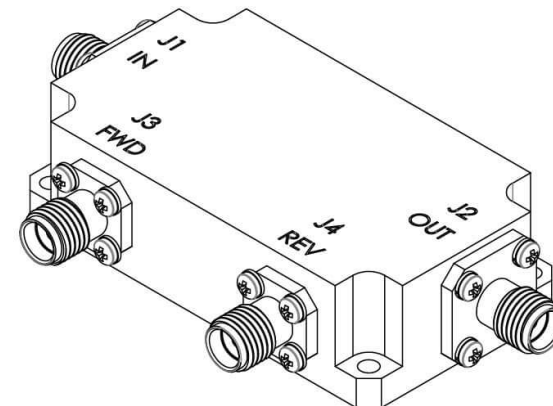
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	3/23/2011	BW
A	ECN 9696	5/15/2019	RB



- 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-J4: SMA FEMALE**

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563			
		SD	5/14/2019	CHK	DATE		TITLE OUTLINE	SIZE B	CAGE CODE 20724-500	REV A
		CS	5/14/2019	ENGR	DATE					
		INFR	DATE							
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONS FOR ASSEMBLY PER MIL-STD-100 PARENTHESES ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE FINISHES TOLERANCES: ANGLES ± 2° 3 PL ± .005 [13] 2 PL ± .015 [38] REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY MACHINED DIA. .002 FIM MACHINE TOOL MISMATCH .003 MAX		QA	DATE	RLSE	DATE					
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION								
APPLICATION										

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