



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.

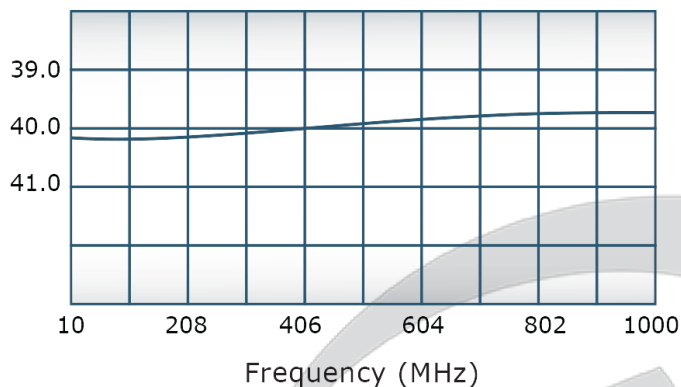


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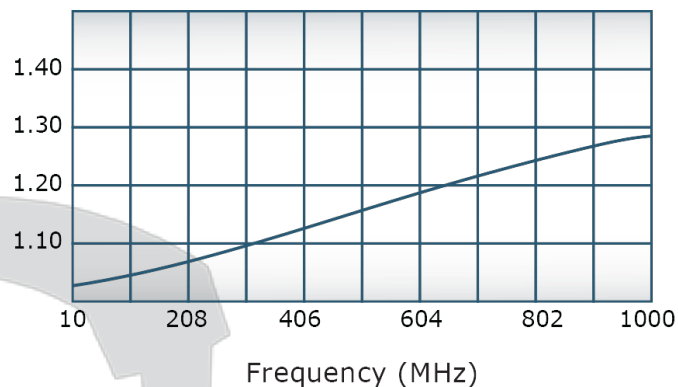
C8858

Performance Data (Specifications subject to change without notice):

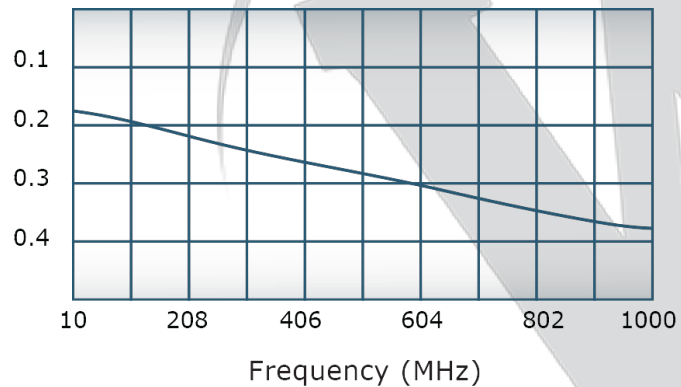
Coupling:



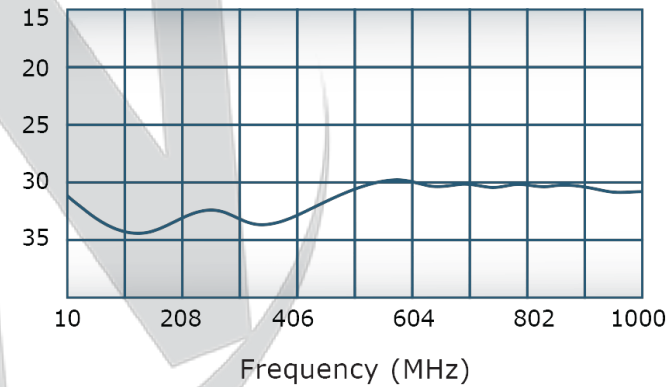
VSWR:



Insertion Loss:



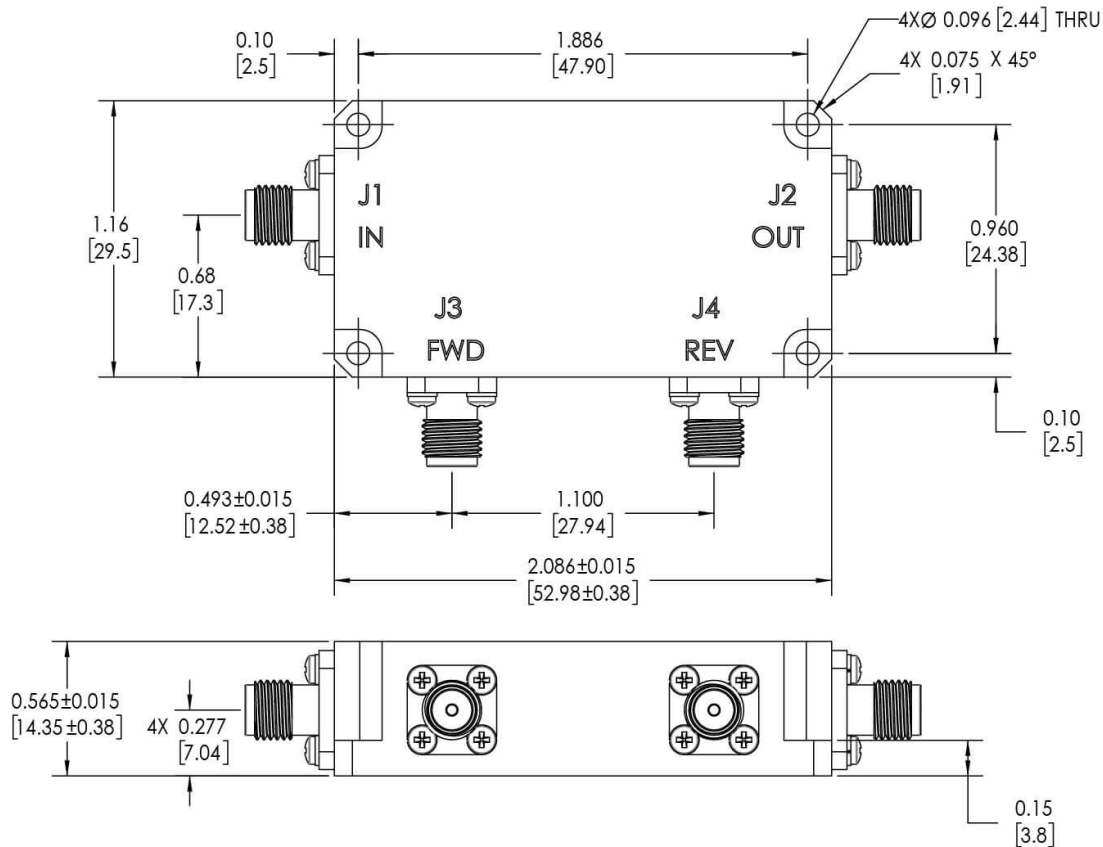
Directivity:



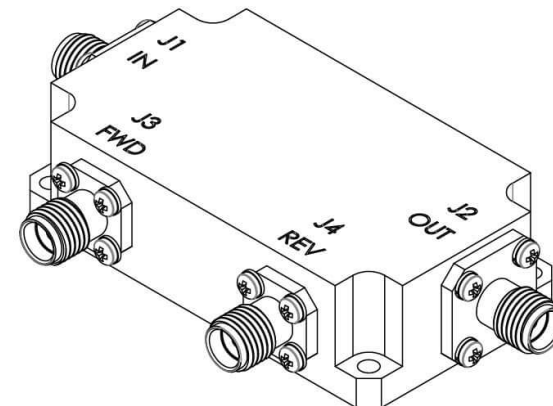
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	3/23/2011	BW
A	ECN 9696	5/15/2019	RB



- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
 - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
 - CONNECTORS: J1-J4: SMA FEMALE**

UNLESS OTHERWISE SPECIFIED		OWN	DATE	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		SD	5/14/2019	WERLATONE SINCE 1965	
DIMENSIONS FOR ASSEMBLY		CHK	DATE		
PARENTHESES ARE USED FOR REFERENCE ONLY		CS	5/14/2019	TITLE	
DIMENSIONS ARE IN INCHES		ENGR	DATE		
DIMENSIONAL LIMITS APPLY BEFORE FINISHES		INFR	DATE	OUTLINE	
TOLERANCES:		QA	DATE		
ANGLES ± 2°		RLSE	DATE	SIZE CAGE CODE DWG NO	
3 PL ± .005 [13]					
2 PL ± .015 [38]				REV	
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
CONCENTRICITY MACHINED DIA. .002 FIM				SCALE	
MACHINE TOOL MISMATCH .003 MAX					
THIRD ANGLE PROJECTION				SHEET 1 OF 1	
APPLICATION					

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