



PRODUCT DATA SHEET

C9439

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: 20 - 520 MHz
 Power: 1000 W CW
 Coupling: 53 ± 1.0 dB Max.
 Insertion Loss: 0.3 dB Max.
 Flatness: ± 1.0 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
 Size: 4.45 x 2.4 x 1.59"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C9439-12	N Female	N Female	SMA	SMA
C9439-20	7/16 Female	7/16 Female	N Female	N Female
C9439-22	7/16 Female	7/16 Female	SMA	SMA
C9439-23	7/16 Female	7/16 Female	BNC	BNC
C9439-41	SC Female	SC Female	N Female	N Female
C9439-43	SC Female	SC Female	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 C9439

Connectorized Directional Couplers

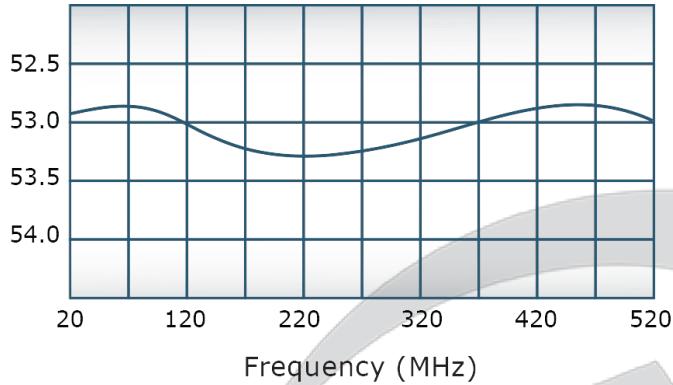


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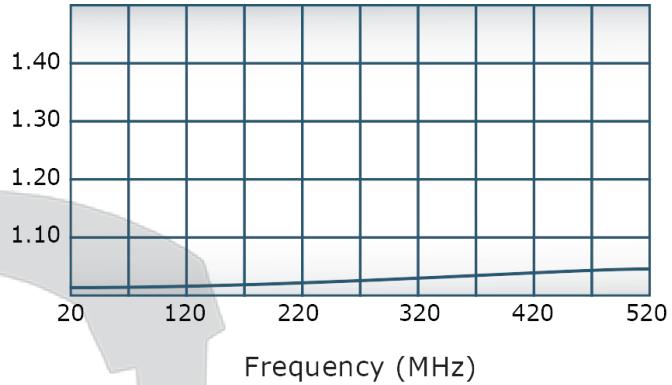
C9439

Performance Data (Specifications subject to change without notice):

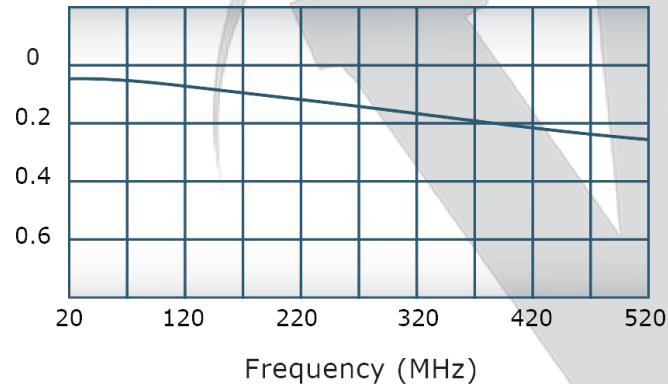
Coupling:



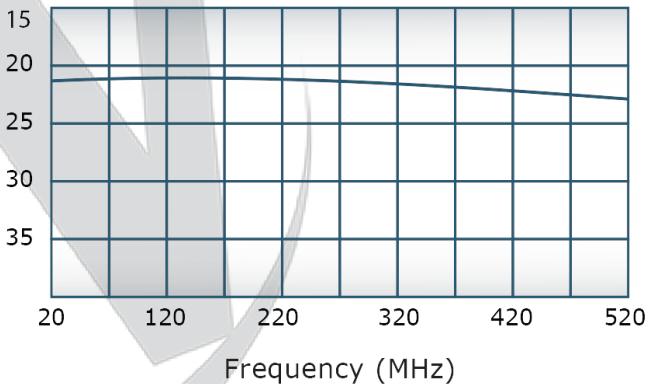
VSWR:



Insertion Loss:



Directivity:



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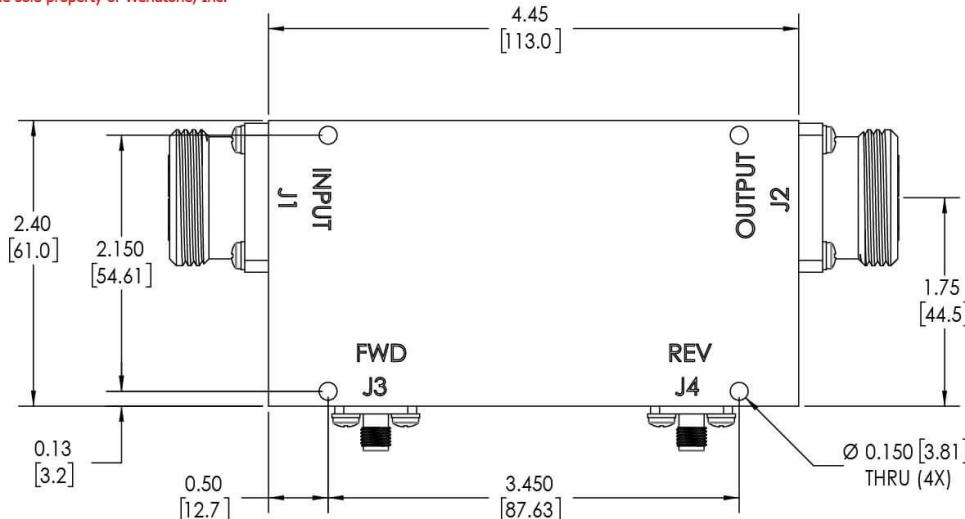
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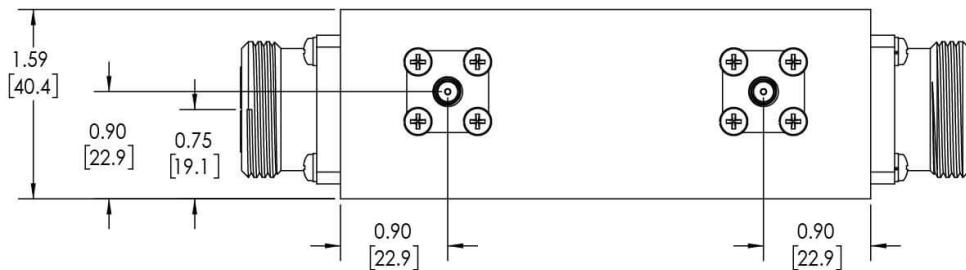
REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
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: SMA FEMALE



		UNLESS OTHERWISE SPECIFIED	OWN SD	DATE 3/25/2019	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING AS MIL-STD-100 UNLESS OTHERWISE SPECIFIED AS MIL-STD-2009 PARENTHETICAL TEXT FOR REFERENCE ONLY		CHK CS	DATE 3/25/2019	ENGR DATE	TITLE	
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MRGR QA	DATE	DATE	SIZE	CAGE CODE DWG NO.
TOLERANCES ANGLES $\pm 2^\circ$ 3 RL $\pm .005$ [125] 2 RL $\pm .012$ [300]		RELEASE	DATE	DATE	B	20828-500
NEXT ASSY USED ON		APPLICATION	THIRD ANGLE PROJECTION	SCALE 1:1	REV A	SHEET 1 OF 1

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