



PRODUCT DATA SHEET

C9023

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: 98 - 102 MHz

Power: 500 W CW

Coupling: 40 ± 1.0 dB Max.

Insertion Loss: 0.15 dB Max.

Flatness: ± 0.3 dB Max.

VSWR (ML): 1.15:1 Max.

Directivity: 25 dB Min.

Mechanical Specifications:

Type:

Material:

Surface Finish:

Connectorized
Aluminum 6061-T6
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: 3.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C9023-10	N Female	N Female	N Female	N Female
C9023-12	N Female	N Female	SMA	SMA
C9023-13	N Female	N Female	BNC	BNC

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 C9023

Connectorized Directional Couplers

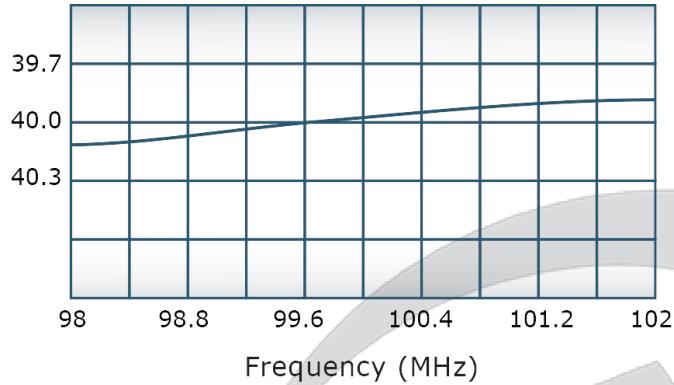


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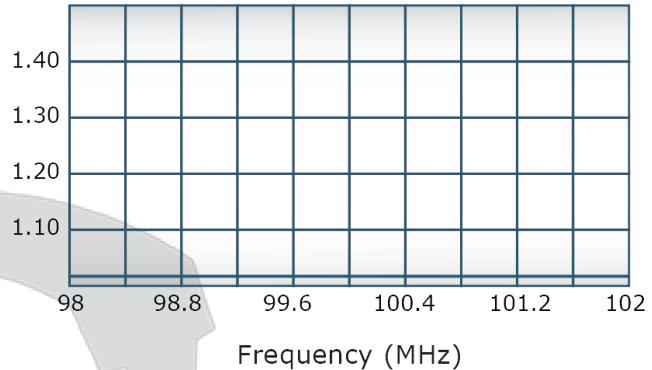
C9023

Performance Data (Specifications subject to change without notice):

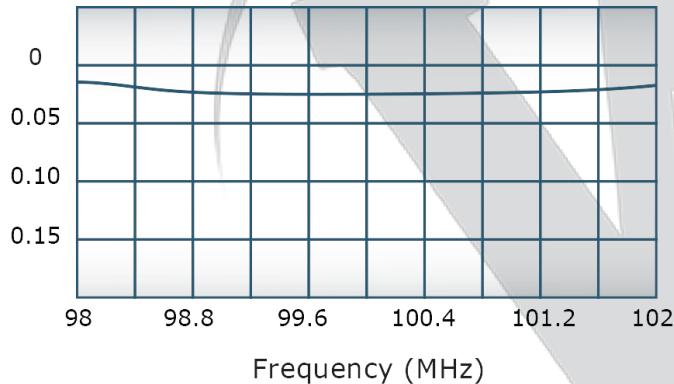
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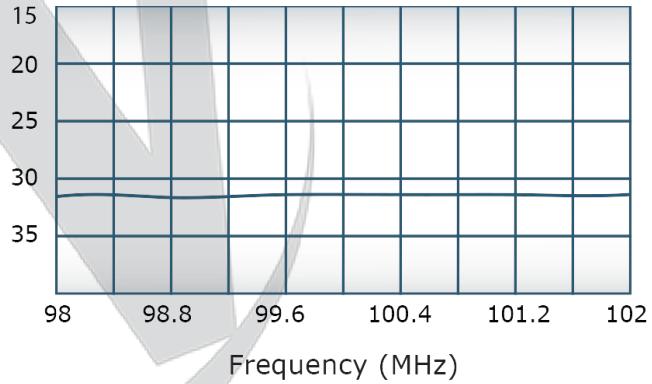
VSWR:



Insertion Loss:



Directivity:



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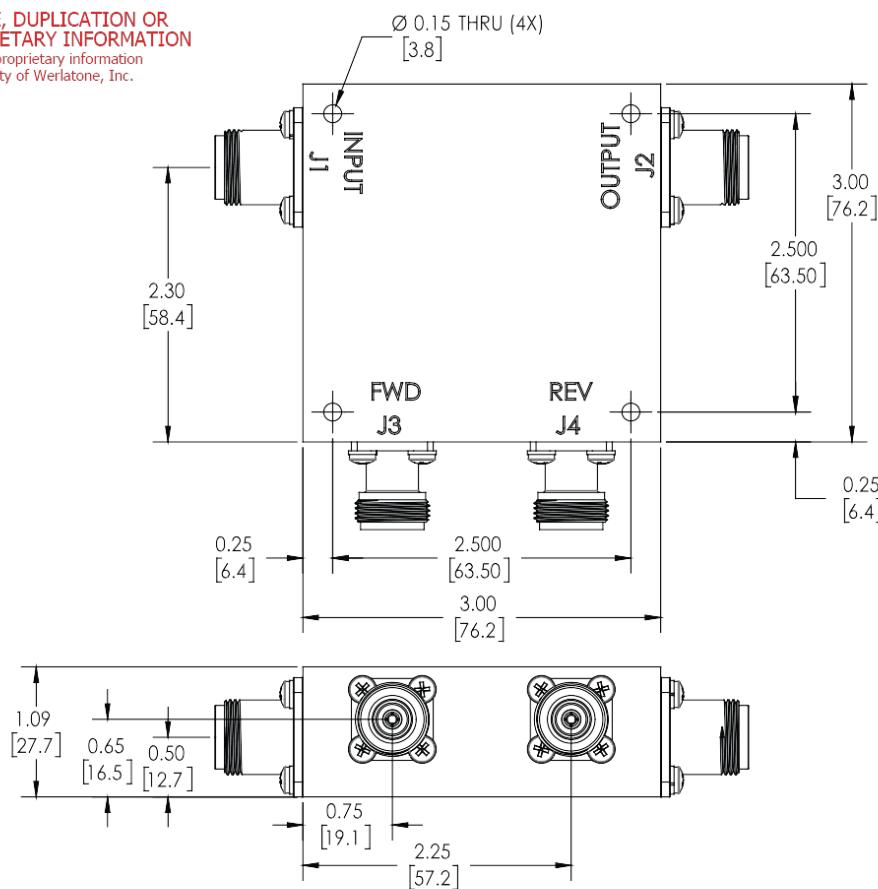
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REVISION HISTORY

REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	11/27/18	RB

NOTES: UNLESS OTHERWISE SPECIFIED

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

UNLESS OTHERWISE SPECIFIED	OWN	DATE	17 Jon Barrett Rd
RH	7/5/2001	DATE	Patterson, NY 12563
WERLATONE SINCE 1965			
CHK	DATE	TITLE	
ENGR	DATE		
MFGR	DATE		
QA	DATE		
PLSE	DATE	SCALE	REV
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