

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.

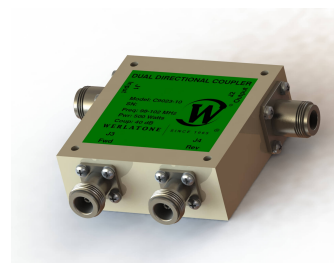
Mechanical Specifications:

Type: 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: 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.

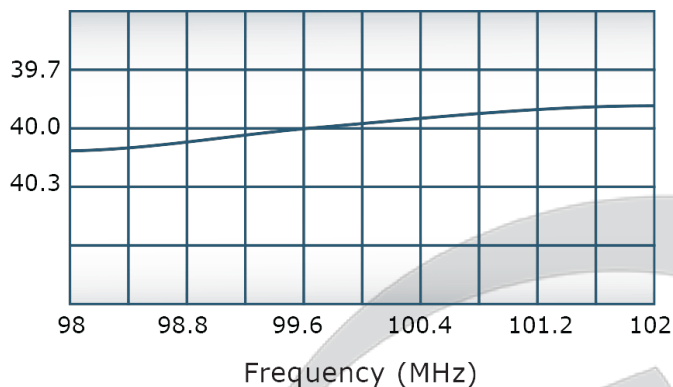


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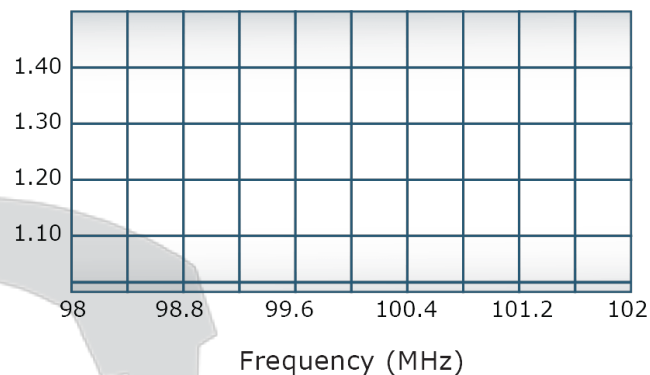
C9023

Performance Data (Specifications subject to change without notice):

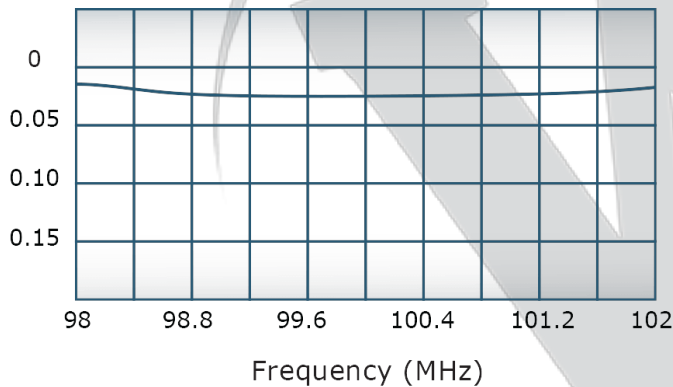
Coupling:



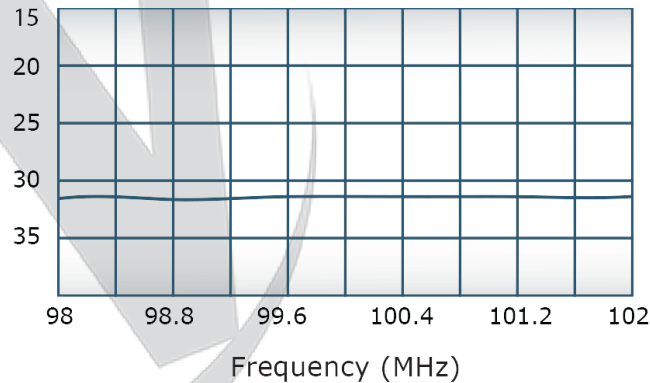
VSWR:



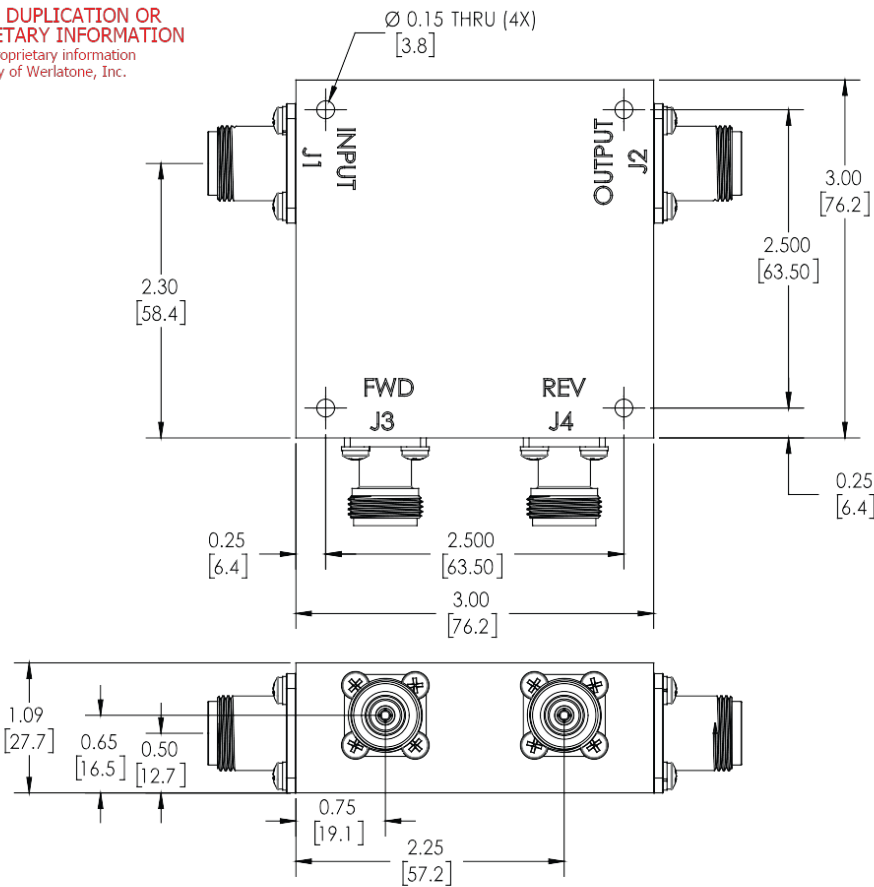
Insertion Loss:



Directivity:



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

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL_5541F TYPE I CLASS 3 (YELLOW IRIDITE)**

UNLESS OTHERWISE SPECIFIED			
• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	OWN	DATE	7/5/2001
• DIMENSIONS FOR ASME Y14.5M-2009	CHK	DATE	
• PARENTHESES FOR REF ONLY	ENGR	DATE	
• DIMENSIONS ARE IN INCHES	MJ	7/5/2001	
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING	MPGR	DATE	
• TOLERANCES:	QA	DATE	
ANGLES: ± 2°	RLSE	DATE	
2 PL. ± .005 [1.3]			
2 PL. ± .015 [3.8]			
• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX			
• CONCENTRICITY MACHINED DIA: .002 FIM			
• MACHINE TOOL MISMATCH: .003 MAX			
NEXT ASSY	USED ON		
APPLICATION	THIRD ANGLE PROJECTION		

 WERLATONE SINCE 1965			17 Jon Barrett Rd Patterson, NY 12563		
TITLE					
OUTLINE					
SIZE	CAGE CODE	DAWG NO			REV
B		10379-505			A
SCALE	1:1			SHEET 1 OF 1	

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