

PRODUCT DATA SHEET

C6918

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: 297 - 302 MHz
Power: 1000 W CW
Coupling: 50 ± 1.0 dB Max.
Flatness: ± 0.3 dB Max.
Insertion Loss: 0.15 dB Max.
VSWR (ML): 1.15:1 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: 3.0 x 3.0 x 1.09"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C6918-10	N Female	N Female	N Female	N Female
C6918-12	N Female	N Female	SMA	SMA
C6918-13	N Female	N Female	BNC	BNC
C6918-302	TNC Female	TNC Female	SMA	SMA
C6918-712	N Male	N Female	SMA	SMA
C6918-714	N Male	N Female	N Female	N Female

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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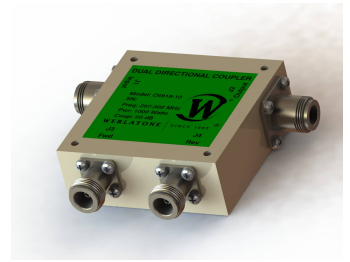
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



WERLATONE

Model C6918

Connectorized Directional Couplers

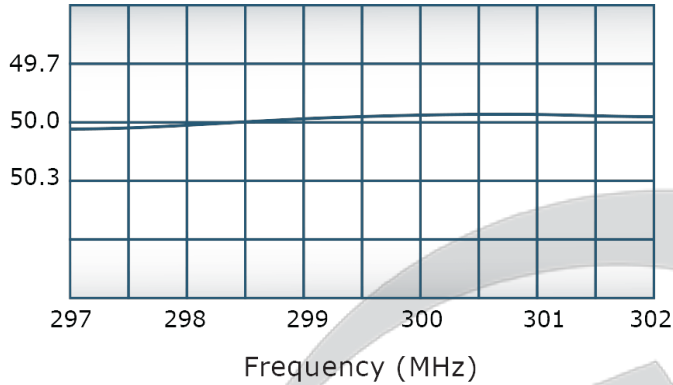


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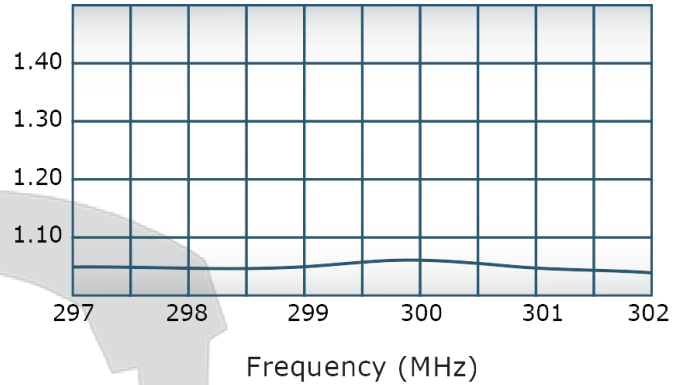
C6918

Performance Data (Specifications subject to change without notice):

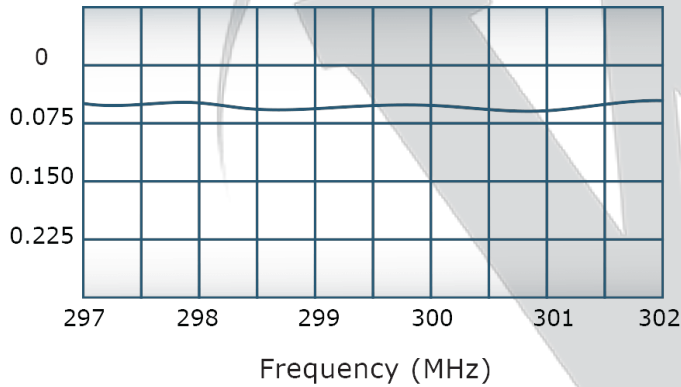
Coupling:



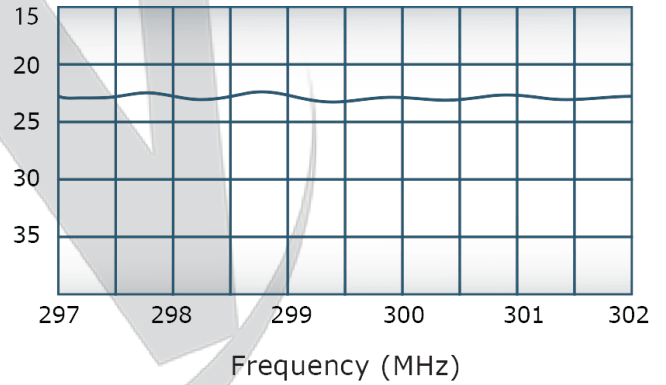
VSWR:



Insertion Loss:



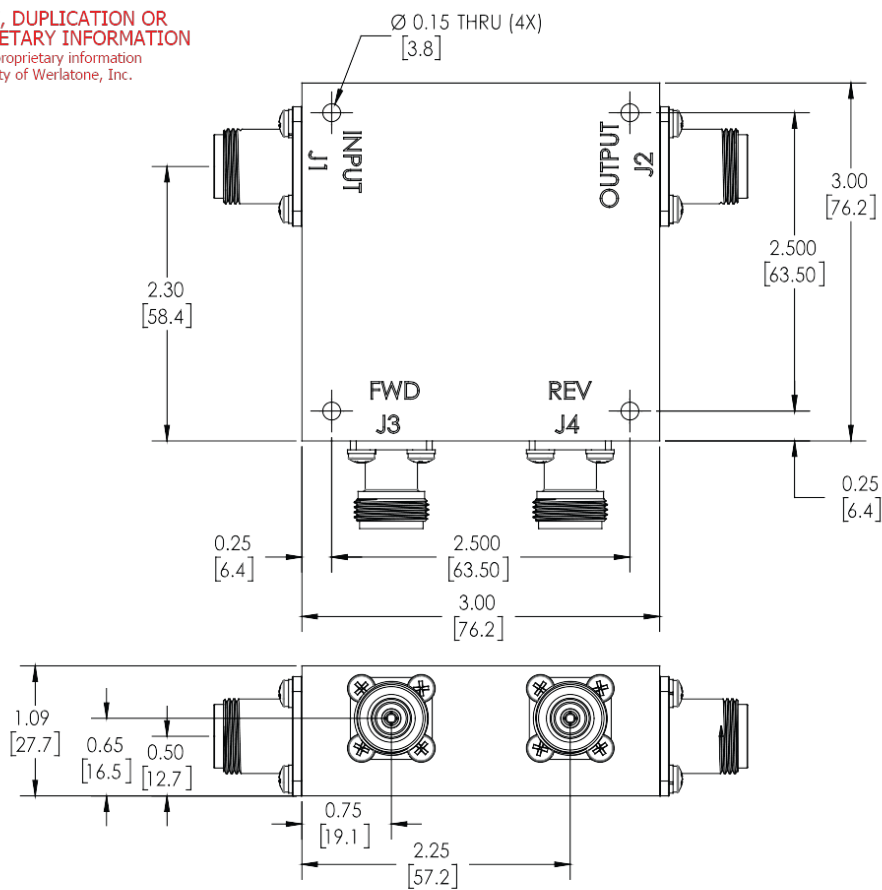
Directivity:



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

NOTES: UNLESS OTHERWISE SPECIFIED

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

		UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE® SINCE 1965	17 Jon Barrett Rd Patterson, NY 12568		
NEXT ASSY USED ON	APPLICATION	• INTERPRET DRAWING AS PER MIL-STD-100 • DIMENSIONING PER ASME Y14.5-2009 • DIMENSIONAL INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: - ANGLES ± ° - Ø R. ± .005 [1:3] ± P. ± .005 [3:1] • REMOVE ALL MARKS AND SHARP EDGES R.01 MAX • CONDUCTIVITY MACHINED SUR. 402 FPM • MACHINE TOOL, REPRODUCTION .002 MAX		RH	7/5/2001		OUTLINE SIZE CAGE CODE DWG NO 10379-505	R1	SHEET 1 OF 1
		CHK	DATE	TITLE					
		BNGR	7/5/2001						
				MJ	DATE				
				QA	DATE				
				RLSE	DATE				
		THIRD ANGLE PROJECTION 		SCALE		1:1			

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