

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"

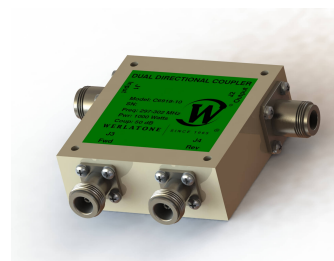
Connector Configurations:

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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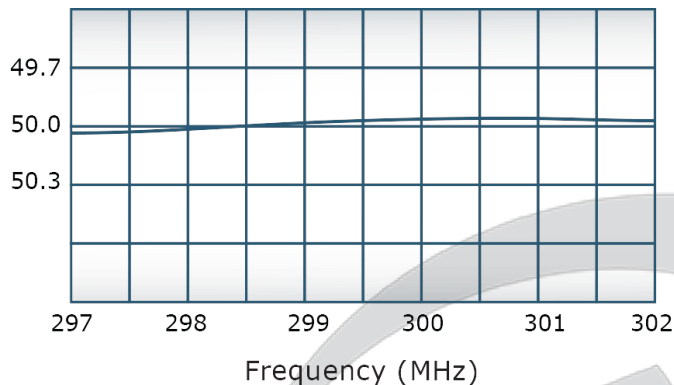


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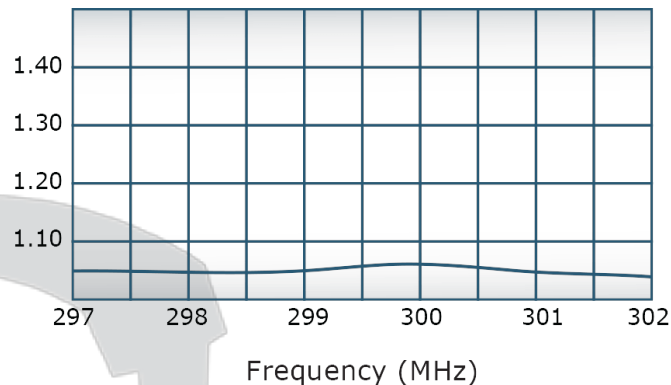
C6918

Performance Data (Specifications subject to change without notice):

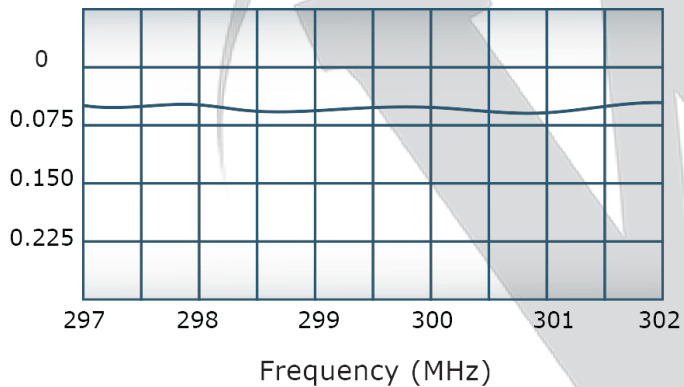
Coupling:



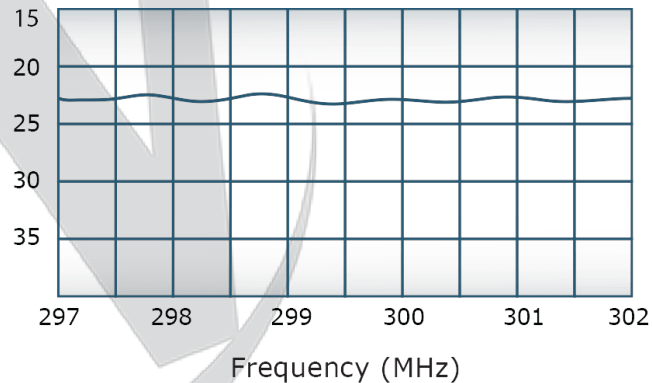
VSWR:



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

- MATERIAL: ALUMINUM 6061-T6**
- 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 12563
		<ul style="list-style-type: none">• INTERPRET DRAWING JAW MIL-STD-100• DIMENSIONING PER ASME Y14.5M-2009• PARENTHETICAL INFO FOR REF ONLY• DIMENSIONS ARE IN INCHES• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES• TOLERANCES:<ul style="list-style-type: none">ANGLES ± 2°3 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		CHK	DATE	
				ENGR	DATE	OUTLINE SIZE CAGE CODE DWG NO B 10379-505
				M3 MFR	DATE	
				QA	DATE	SCALE 1:1 SHEET 1 OF 1
				DATE	DATE	
				ELSE	DATE	
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION 				
APPLICATION						

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