

PRODUCT DATA SHEET

C5019

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: 1000 - 2000 MHz
Power: 100 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.3 dB Max.
VSWR (ML): 1.20:1 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)
C5019-10	N Female	N Female	N Female	N Female
C5019-12	N Female	N Female	SMA	SMA
C5019-13	N Female	N Female	BNC	BNC
C5019-102	SMA	SMA	SMA	SMA
C5019-302	TNC Female	TNC Female	SMA	SMA
C5019-714	N Male	N Female	N Female	N Female

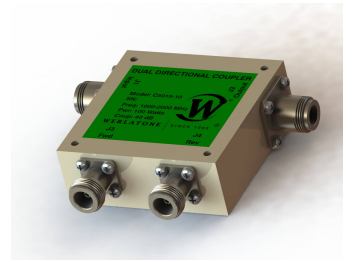
Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.



WERLATONE

Model C5019

Connectorized Directional Couplers

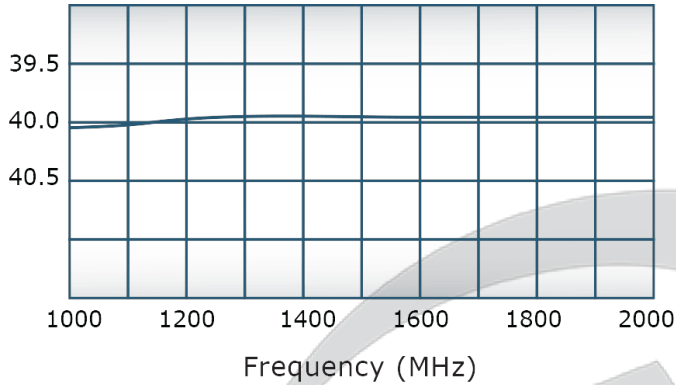


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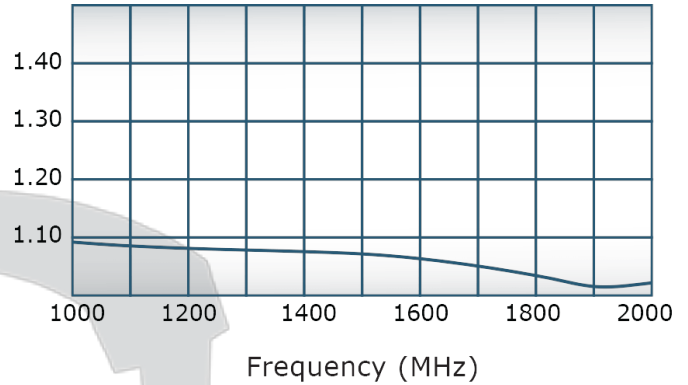
C5019

Performance Data (Specifications subject to change without notice):

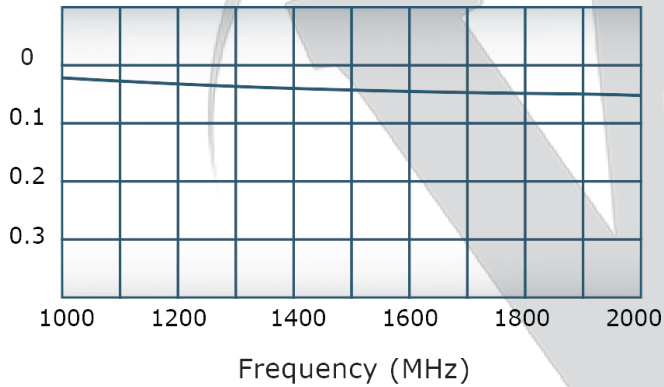
Coupling:



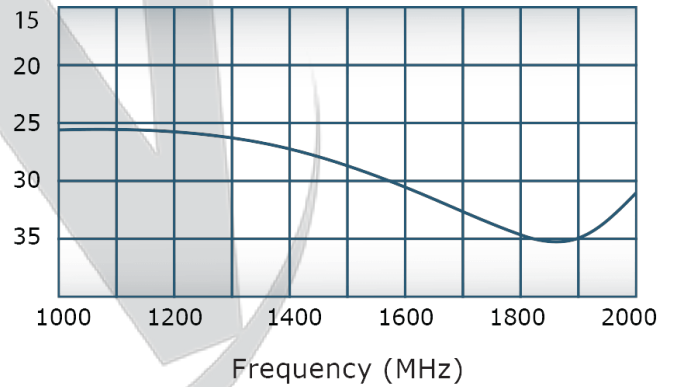
VSWR:



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	<div><div></div><div>WERLATONE SINCE 1965</div></div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>	
		<div><div><div><div>• INTERPRET DRAWING JAW MIL-STD-100</div><div>• DIMENSIONING PER ASME Y14.5M-2009</div><div>• PARENTHETICAL INFO FOR REF ONLY</div><div>• DIMENSIONS ARE IN INCHES</div><div>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</div><div>• TOLERANCES: ANGLES: ± 2° 3 PL. ± .005 [1.3] 2 PL. ± .015 [3.8]</div><div>• REMOVE ALL BURRS AND SHARP EDGES R.01 MAX</div><div>• CONCENTRICITY MACHINED DIA: .002 FIM</div><div>• MACHINE TOOL MISMATCH: .003 MAX</div></div></div></div>		CHK	DATE		
				ENGR	DATE	<div>TITLE</div> <div>OUTLINE</div> <div><div>B</div><div>CAGE CODE</div><div>DWG NO</div><div>10379-505</div></div> <div>REV</div> <div>A</div>	
				MFG	DATE		
				QA	DATE	<div>SCALE</div> <div>1:1</div> <div>SHEET 1 OF 1</div>	
				ELSE	DATE		
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION 					
APPLICATION							

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