
PRODUCT DATA SHEET
C5068

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.

Electrical Specifications:

Frequency: 1000 - 2000 MHz
Power: 400 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:

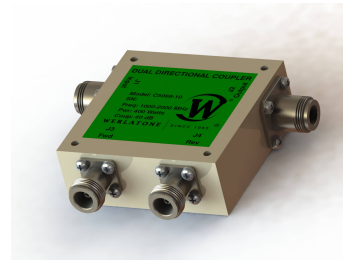
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5068-10	N Female	N Female	N Female	N Female
C5068-12	N Female	N Female	SMA	SMA
C5068-13	N Female	N Female	BNC	BNC
C5068-20*	7/16 Female	7/16 Female	N Female	N Female
C5068-22*	7/16 Female	7/16 Female	SMA	SMA
C5068-23*	7/16 Female	7/16 Female	BNC	BNC
C5068-51	C Female	C Female	N Female	N Female
C5068-610	N Female	N Male	N Female	N Female
C5068-714	N Male	N Female	SMA	SMA
C5068-727*	7/16 Male	7/16 Female	N Female	N Female
C5068-728*	7/16 Male	7/16 Female	SMA	SMA

(7/16-F Main Line connector option increases size to 3.0 x 3.0 x 1.59")



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Model C5068

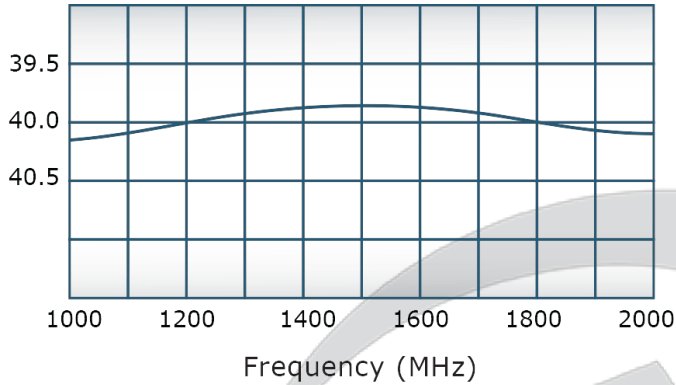


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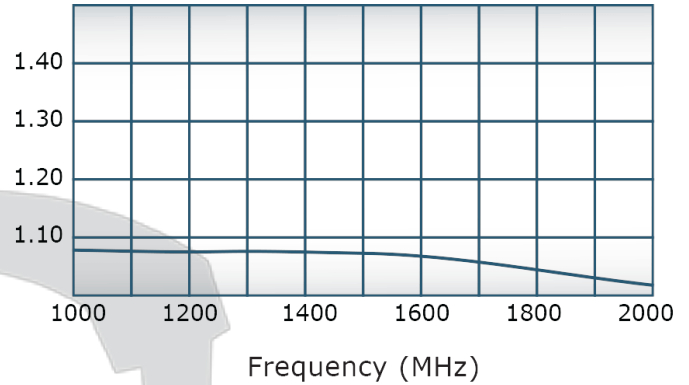
C5068

Performance Data (Specifications subject to change without notice):

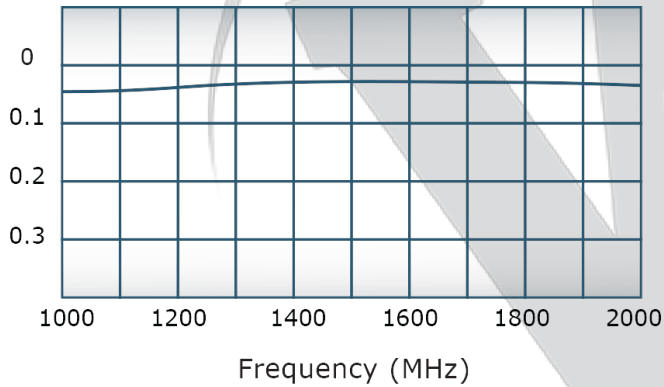
Coupling:



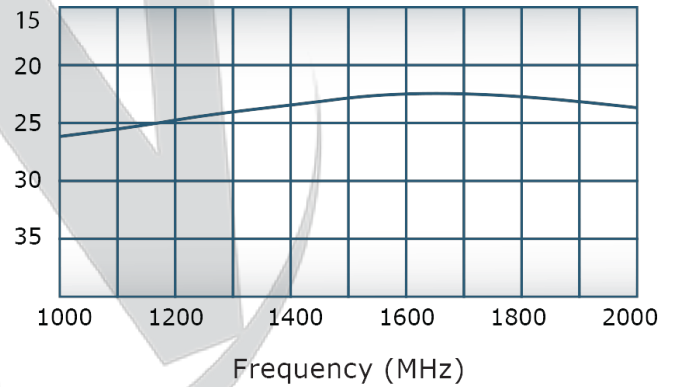
VSWR:



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	
		• INTERPRET DRAWING SHAP MIL-STD-105	RH	7/5/2001			Patterson, NY 12568	
		• DIMENSIONING PER ASME Y14.5-2009	CHK	DATE	TITLE			
		• DIMENSIONAL INFO FOR REF ONLY						
		• DIMENSIONS ARE IN INCHES	ENGR	7/5/2001		<h1>OUTLINE</h1>		
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	M3					
		• TOLERANCES:						
		ANGLES ± 7° ± RA ± .005 [1.3] ± P ± .015 [28]	MFR					
		• REMOVE ALL BURRS AND SHARP EDGES R.01 MIN	QA	DATE	SIZE	CAGE CODE	DWG NO	
		• CONCENTRICITY MAXIMUM DIA. .002 FIM					10379-505	
		• MACHINE TOOL IDENTIFICATION .002 FIM	RLSE	DATE	SCALE	1:1		
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION 						SHEET 1 OF 1
APPLICATION								

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