
**PRODUCT DATA SHEET**
**C5069**

**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:                1500 W CW  
 Coupling:            50 ± 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.

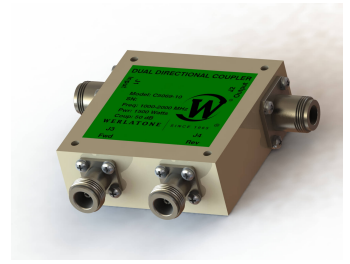
**Mechanical Specifications:**

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:**

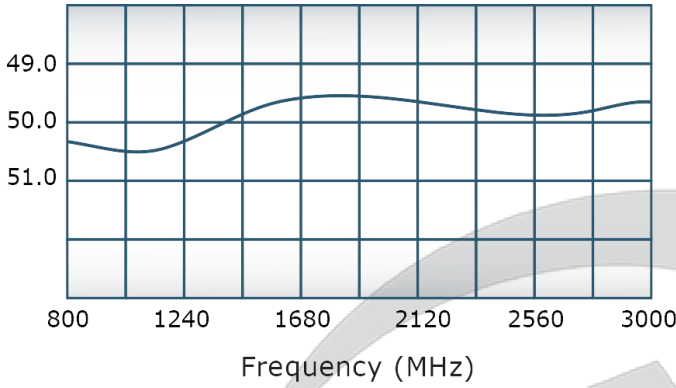
Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5069-10	N Female	N Female	N Female	N Female
C5069-12	N Female	N Female	SMA	SMA
C5069-13	N Female	N Female	BNC	BNC
C5069-20*	7/16 Female	7/16 Female	N Female	N Female
C5069-22*	7/16 Female	7/16 Female	SMA	SMA
C5069-23*	7/16 Female	7/16 Female	BNC	BNC
C5069-41	SC Female	SC Female	N Female	N Female
C5069-102	SMA	SMA	SMA	SMA
C5069-712	N Male	N Female	SMA	SMA
C5069-714	N Male	N Female	N Female	N Female
C5069-728*	7/16 Male	7/16 Female	SMA	SMA

\*Starred options are 3.0 x 3.0 x 1.59"

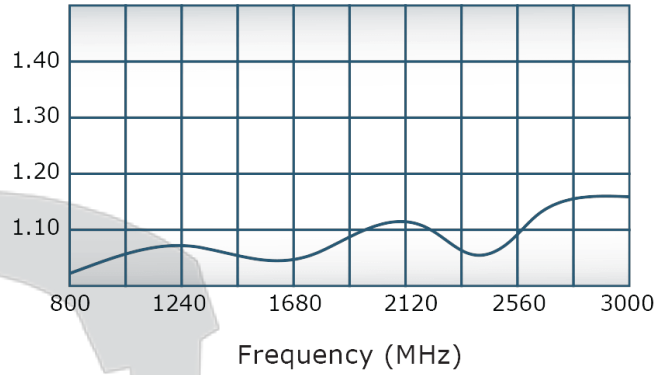


## Performance Data (Specifications subject to change without notice):

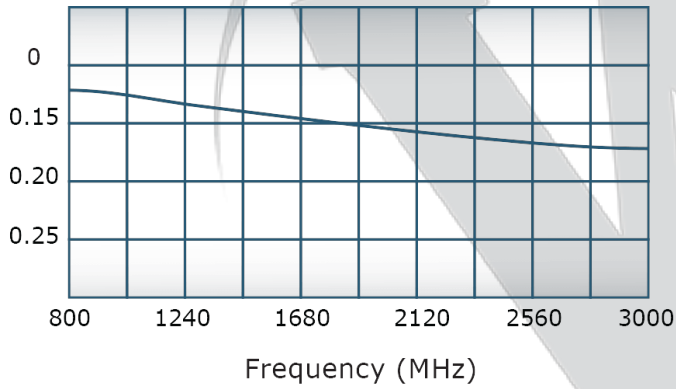
Coupling:



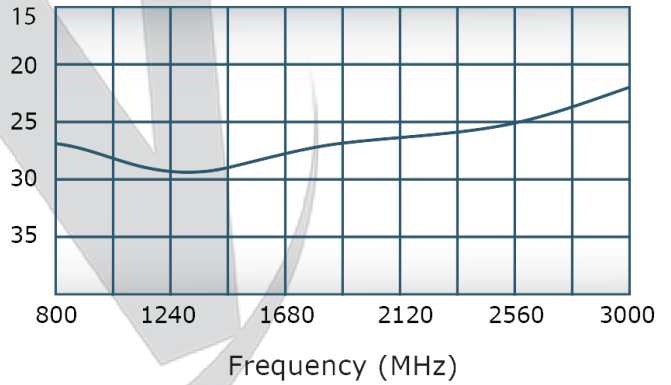
VSWR:



Insertion Loss:



Directivity:

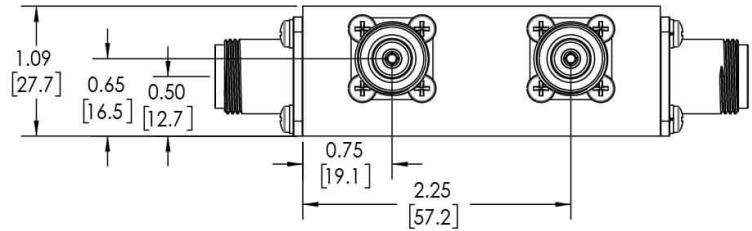
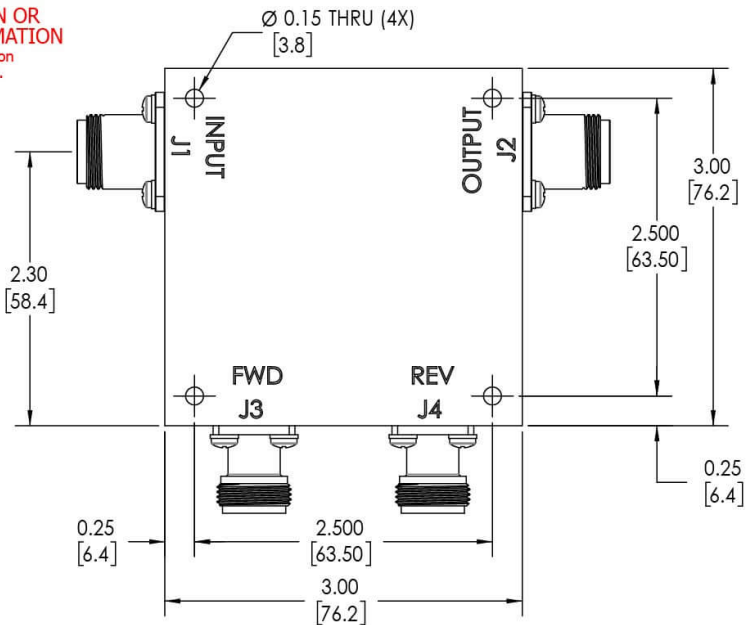


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Werlatone, Inc.

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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)**
  - CONNECTORS: J1-J4: N FEMALE**

UNLESS OTHERWISE SPECIFIED		DWN	DATE	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IAW MIL-STD-100		SD	2/11/2019	W WERLATONE SINCE 1965
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	
PARENTHERTICAL INFO FOR REF ONLY		CS	2/11/2019	TITLE
DIMENSIONS ARE IN INCHES		ENGR	DATE	OUTLINE
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MD	7/5/2001	SIZE
TOLERANCES:		INFR	DATE	CAGE CODE
ANGLES ± 2°		QA	DATE	DWG NO
3 PL ± .005 [13]		RLSE	DATE	10379-505
2 PL ± .015 [38]				REV
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX				A
CONCENTRICITY MACHINED DIA: .002 FIM				SCALE
MACHINE TOOL MISMATCH .003 MAX.				1:1
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION		SHEET 1 OF 1
APPLICATION				

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