

## 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:  $50 \pm 1.0$  dB Max.  
Insertion Loss: 0.2 dB Max.  
Flatness:  $\pm 0.3$  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

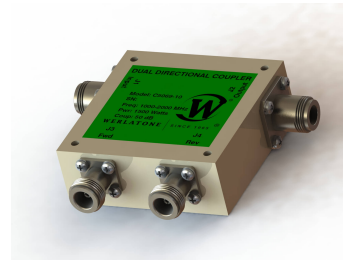
\*Starred options are 3.0 x 3.0 x 1.59"



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Model C5069

Connectorized Directional Couplers

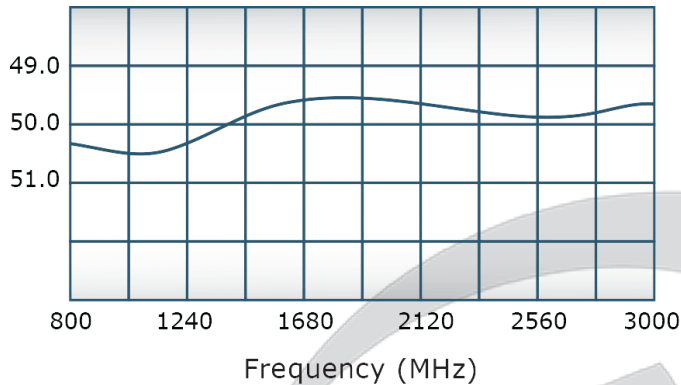


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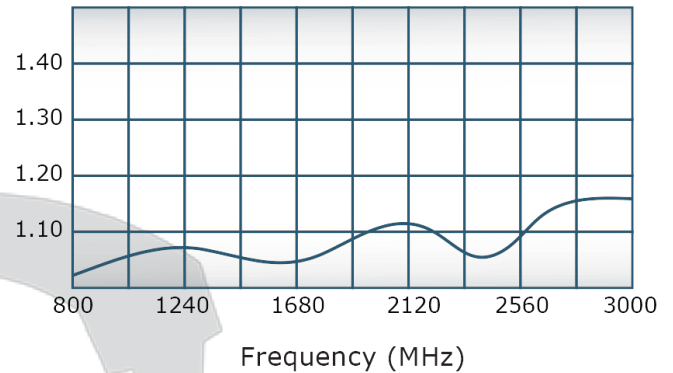
C5069

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

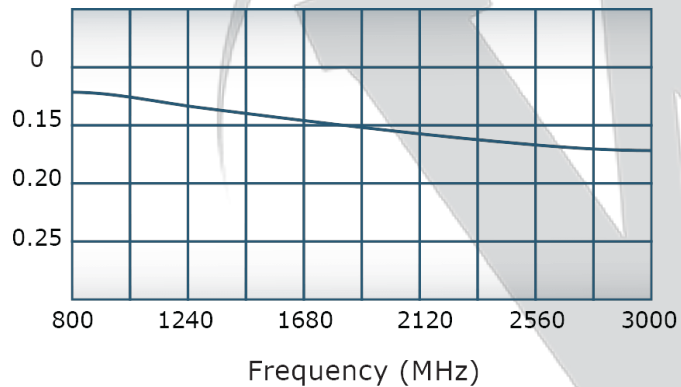
Coupling:



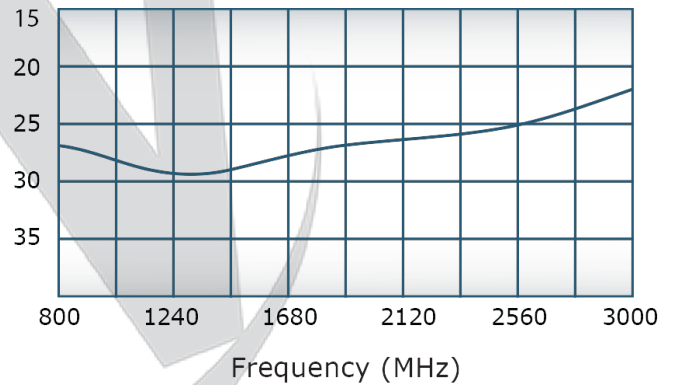
VSWR:



Insertion Loss:

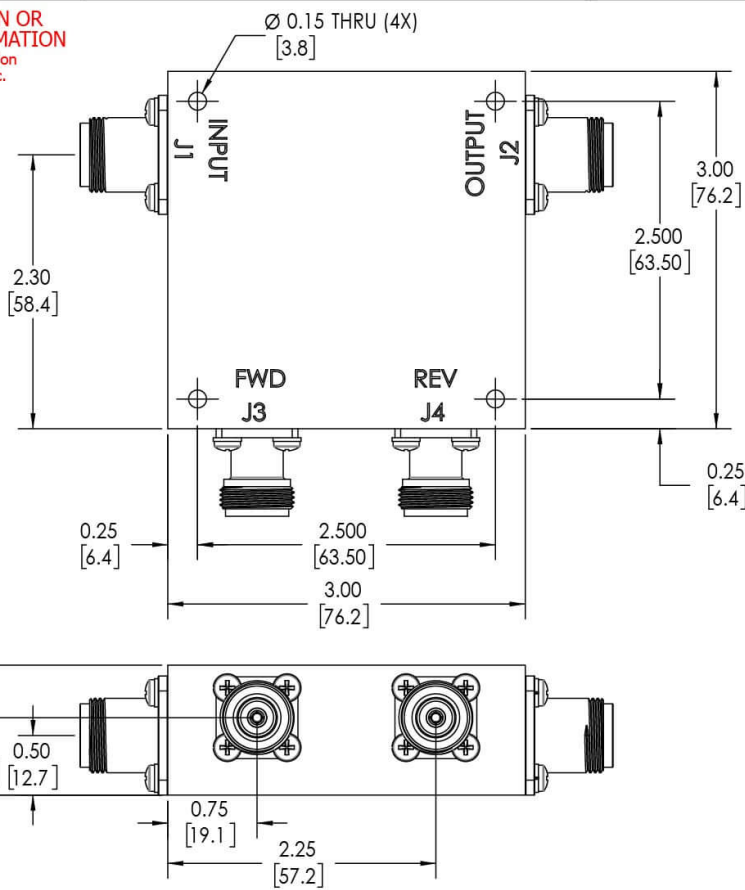


Directivity:



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**NOTES: UNLESS OTHERWISE SPECIFIED**

- 1. MATERIAL: ALUMINUM 6061-T6**
- 2. FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- 3. CONNECTORS:  
J1-J4: N FEMALE**

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