

PRODUCT DATA SHEET

C5027

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: 80 - 1000 MHz
Power: 2000 W CW
Coupling: 60 ± 1.0 dB Max.
Insertion Loss: 0.1 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.30:1 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 1.59"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C5027-20	7/16 Female	7/16 Female	N Female	N Female
C5027-22	7/16 Female	7/16 Female	SMA	SMA
C5027-23	7/16 Female	7/16 Female	BNC	BNC
C5027-71	7/8" EIA	7/8" EIA	N Female	N Female
C5027-726	7/16 Male	N Female	N Female	N Female
C5027-727	7/16 Male	7/16 Female	N Female	N Female
C5027-728	7/16 Male	7/16 Female	SMA	SMA

For proper operation, unit must be mounted to a suitable heatsink capable of maintaining a unit baseplate temperature of less than or equal to +60°C.

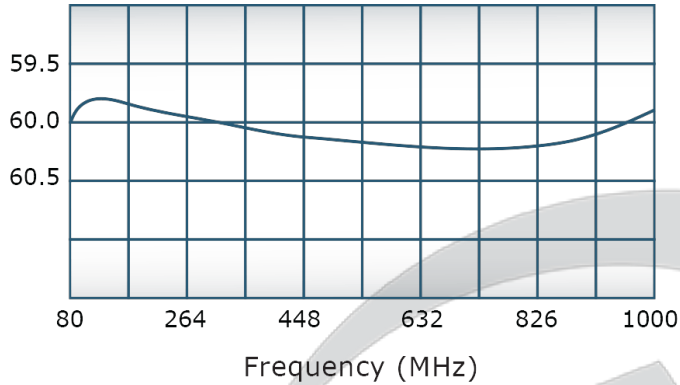


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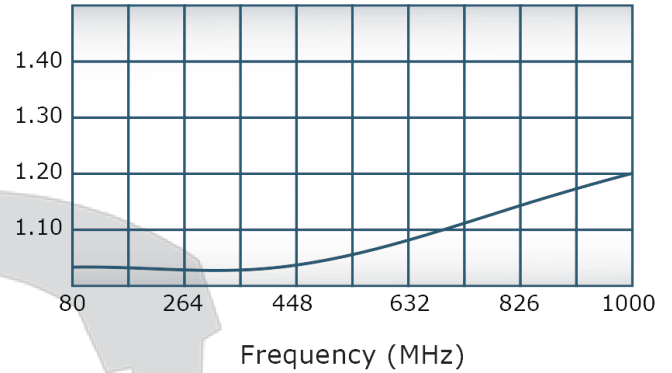
C5027

Performance Data (Specifications subject to change without notice):

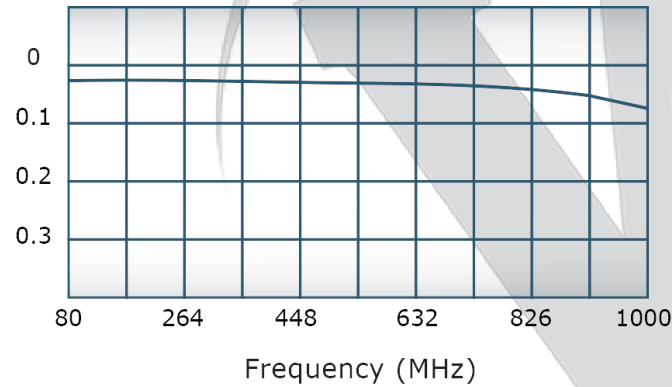
Coupling:



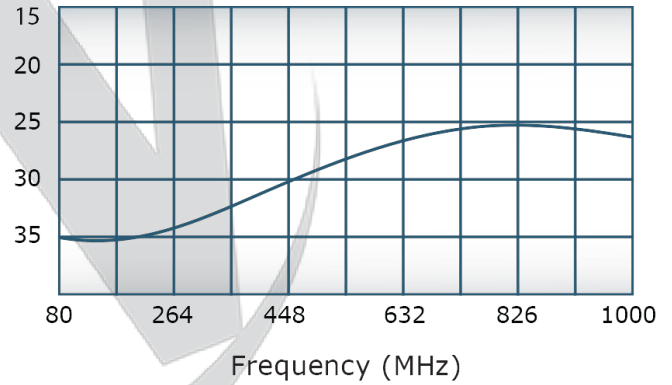
VSWR:



Insertion Loss:



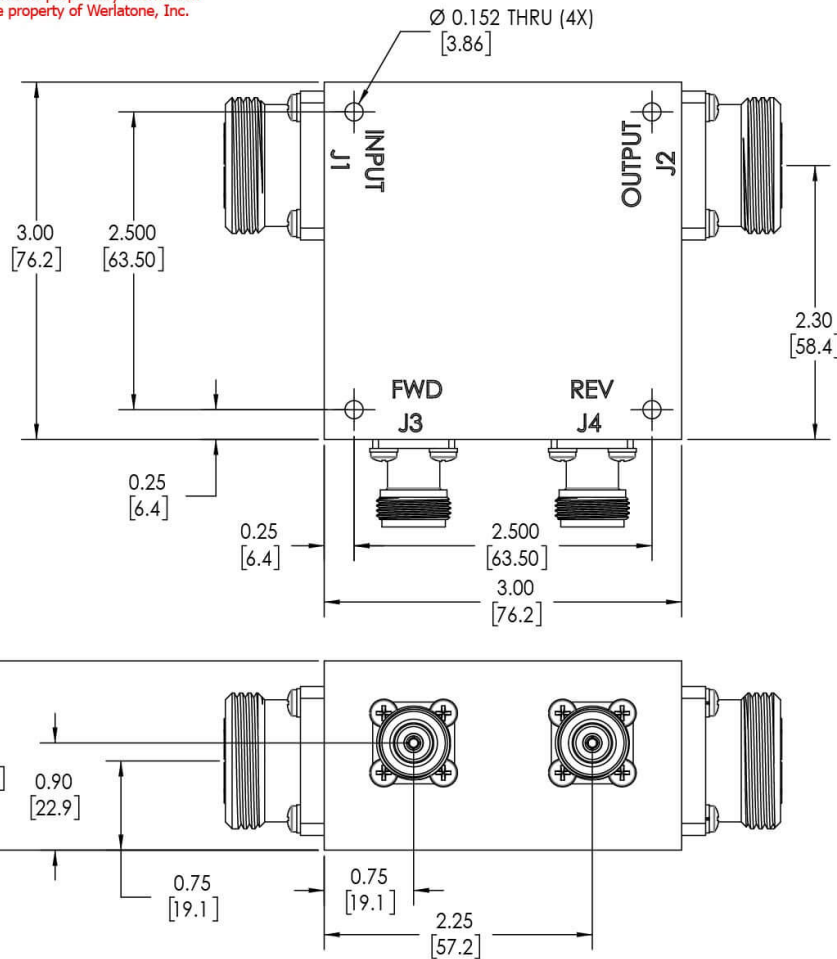
Directivity:



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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/13/2019	RB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM 6061-T6**
- FINISH: CHEM FILM PER MIL-DTL-5541F CLASS I TYPE 3 (YELLOW IRIDITE)**
- CONNECTORS:**
J1, J2: 7/16 FEMALE
J3, J4: N FEMALE

<div>UNLESS OTHERWISE SPECIFIED</div> <div>INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100</div> <div>DIMENSIONS PER ASME Y14.5-2009</div> <div>DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</div> <div>TOLERANCES:</div> <div>ANGLES ± 2°</div> <div>3 PL ± .005 [13]</div> <div>2 PL ± .015 [38]</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>		OWN	DATE	<div><div></div><div>WERLATONE SINCE 1965</div></div> <div>17 Jon Barrett Rd Patterson, NY 12563</div>	
		SD	5/13/2019		
		CHK	DATE		
		CS	5/13/2019		
<div>NEXT ASSY</div> <div>USED ON</div> <div>APPLICATION</div>	<div>THIRD ANGLE PROJECTION</div> <div></div>	ENGR	DATE	<div>OUTLINE</div> <div>SIZE CAGE CODE DWG NO</div> <div>B 10443-501</div> <div>SCALE 1:1</div>	REV A
		INFR	DATE		
		QA	DATE		
		RLSE	DATE		
		SHEET 1 OF 1			

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