WERLATONE

Model C5027
Connectorized Directional Couplers



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''

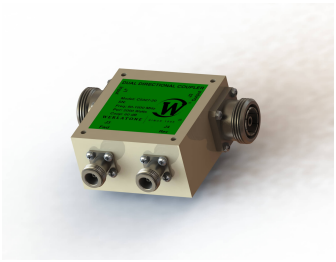
Connector Configurations:

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.

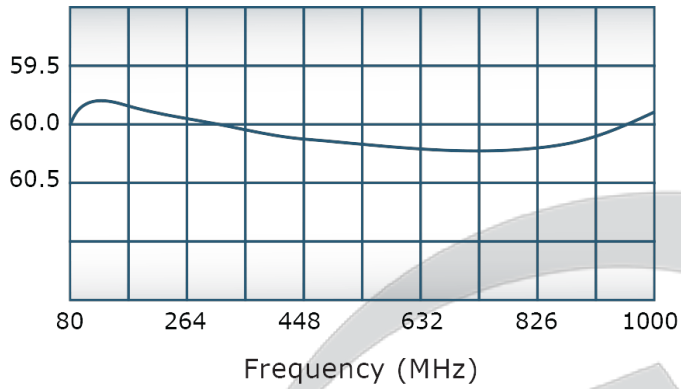
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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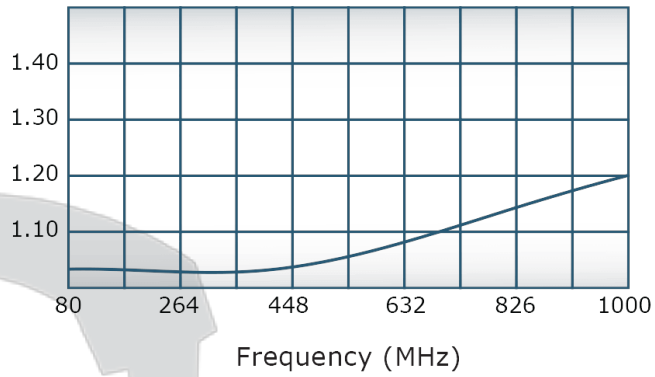


Performance Data (Specifications subject to change without notice):

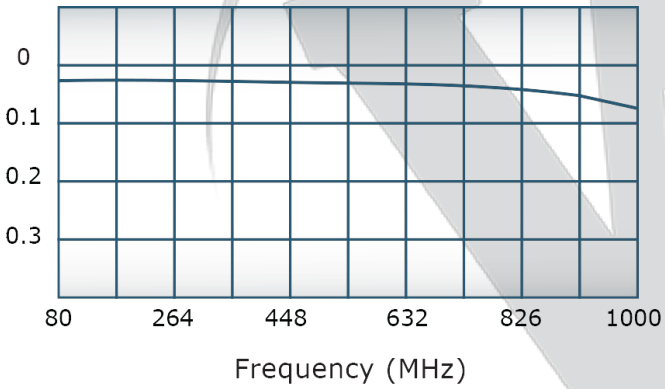
Coupling:



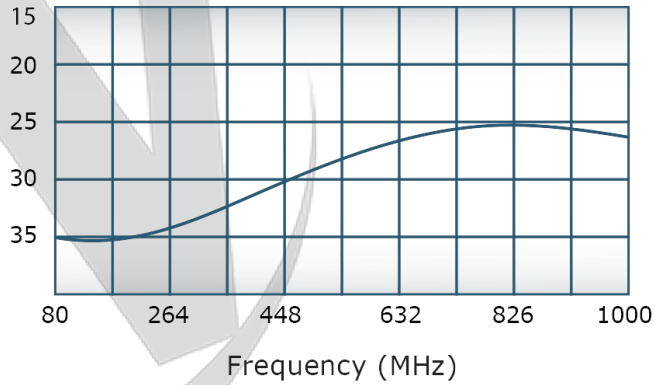
VSWR:



Insertion Loss:



Directivity:

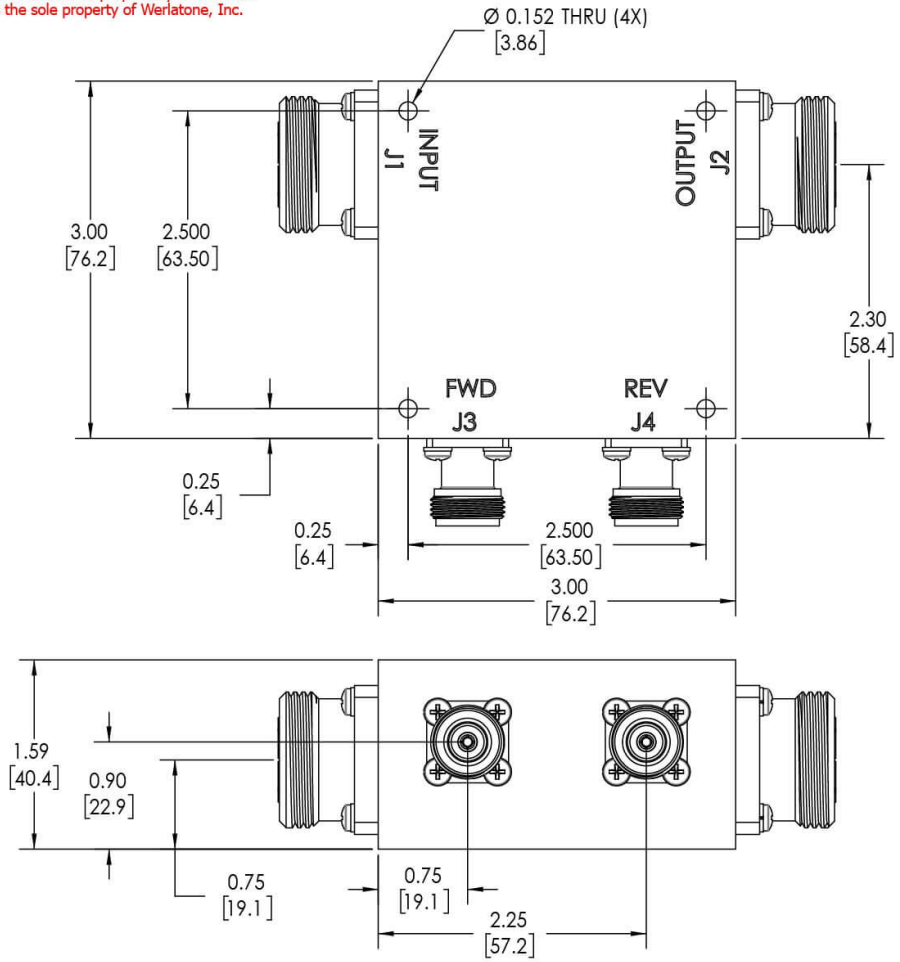


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	5/13/2019	RB



NOTES: UNLESS OTHERWISE SPECIFIED

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

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IAW MIL-STD-100
- DIMENSIONING PER ASME Y14.5M-2009
- PARENTHETICAL INFO FOR REF ONLY
- DIMENSIONS ARE IN INCHES
- DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
- TOLERANCES:
  ANGLES ± 2°
  3 PL ± .005 [.13]
  2 PL ± .015 [.38]
- REMOVE ALL BURRS AND SHARP EDGES R.01 MAX
- CONCENTRICITY MACHINED DIA: .002 FIM
- MACHINE TOOL MISMATCH .003 MAX

THIRD ANGLE PROJECTION

		DATE
DWN	SD	5/13/2019
CHK	CS	5/13/2019
ENGR		
MFGR		
QA		
RLSE		

WERLATONE| SINCE 1965
17 Jon Barrett Rd
Patterson, NY 12563

TITLE
OUTLINE

SIZE	CAGE CODE	DWG NO	REV
B		10443-501	A

SCALE 1:1 SHEET 1 OF 1

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