

## PRODUCT DATA SHEET

C7067

**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: 123 - 133 MHz  
 Power: 2250 W CW  
 Coupling:  $50 \pm 1.0$  dB Max.  
 Insertion Loss: 0.15 dB Max.  
 Flatness:  $\pm 0.5$  dB Max.  
 VSWR (ML): 1.20:1 Max.  
 Directivity: 27 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: 6.0 x 3.0 x 1.09"

### Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C7067-12	N Female	N Female	SMA	SMA
C7067-22	7/16 Female	7/16 Female	SMA	SMA
C7067-28	7/16 Male	7/16 Male	SMA	SMA

**Werlatone®** Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.

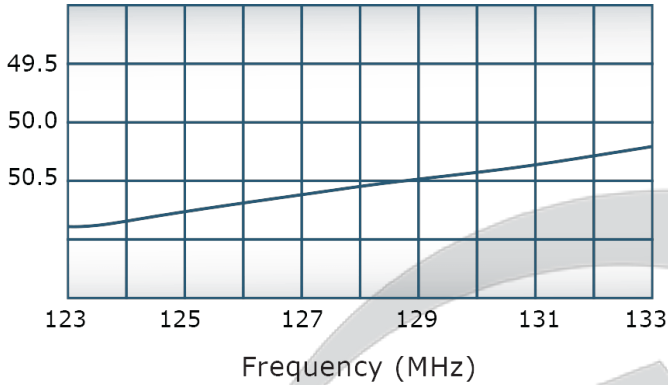


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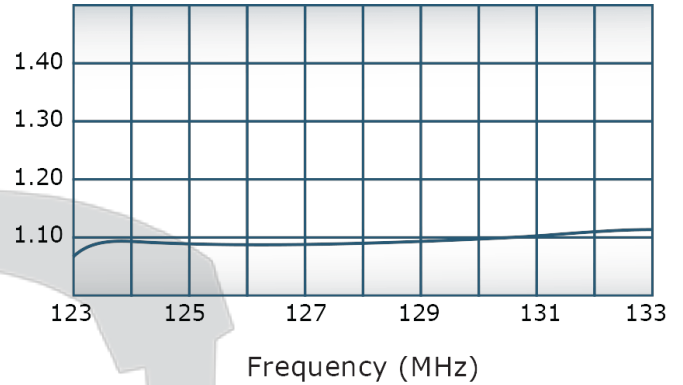
C7067

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

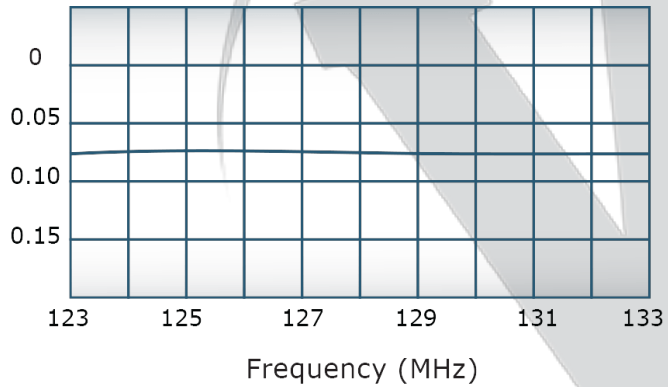
Coupling:



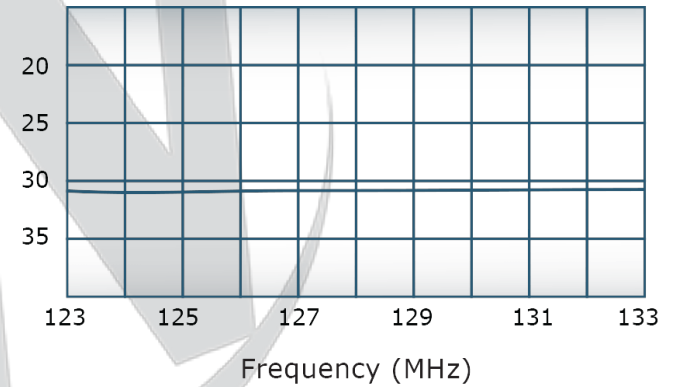
VSWR:



Insertion Loss:



Directivity:




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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
A	ECN 9696	6/18/2019	RB

- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
  - FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
  - CONNECTORS:**  
J1-J2: 7/16 MALE  
J3-J6: SMA FEMALE

<div>UNLESS OTHERWISE SPECIFIED</div> <div>INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100</div> <div>DIMENSIONS PER ASME Y14.5M-2009</div> <div>PARENTHESES FOR REF ONLY</div> <div>DIMENSIONS ARE IN INCHES</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>		DWN	DATE	<div><div> WERLATONE</div><div>SINCE 1965</div></div> <div>17 Jon Barrett Rd</div> <div>Patterson, NY 12563</div>	
		SD	6/18/2019		
		CHK	DATE		
		CS	6/18/2019		
		ENGR	DATE		
<div>NEXT ASSY</div> <div>USED ON</div>		INFR	DATE	<div><div>OUTLINE</div><div>SIZE CAGE CODE DWG NO</div><div>B 10750-503</div></div> <div>SCALE: 1.25</div>	
		QA	DATE		<div>REV</div> <div>A</div>
		RLSE	DATE		
		APPLICATION			

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