


PRODUCT DATA SHEET
C8000

4-Port Bi-Directional Coupler: Similar to the 3-Port Uni-Directional Coupler, except that both ends of the coupled line serve as coupled ports. Convenient for simultaneously monitoring both forward and reverse power. The directivity of this coupler design is, however, dependent upon well matched 50 Ohm loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 600 - 6000 MHz
 Power: 100 W CW
 Coupling: 30 ± 1.0 dB Max.
 Insertion Loss: 0.4 dB Max.
 Flatness: ± 1.0 dB Max.
 VSWR (ML): 1.25:1 Max.
 Directivity: 15 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: 1.8 x 1.00 x 0.56"

Connector Configurations:

| Model | Input (J1) | Output (J2) | Fwd (J3) | Rev (J4) |
|--------------|-------------------|--------------------|-----------------|-----------------|
| C8000-102 | SMA Female | SMA Female | SMA Female | SMA Female |

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.

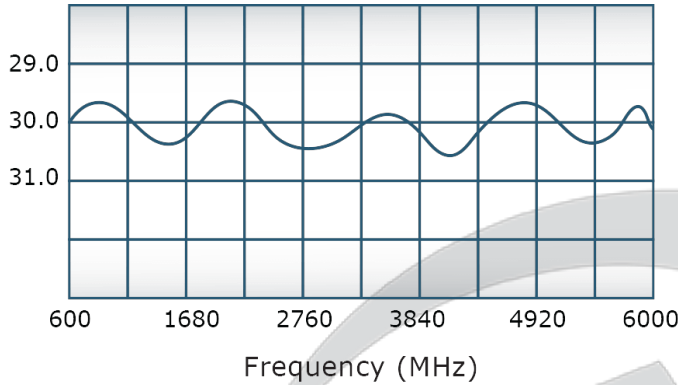


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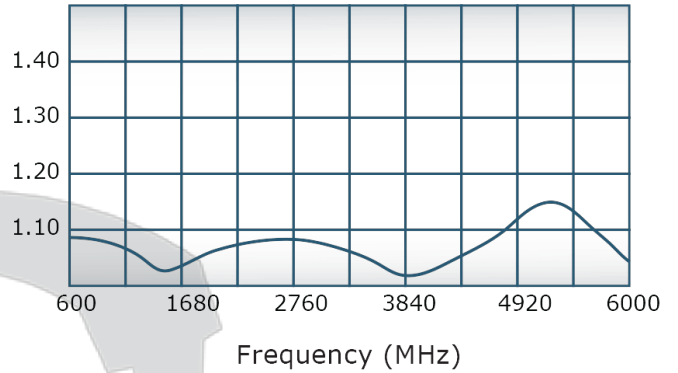
C8000

Performance Data (Specifications subject to change without notice):

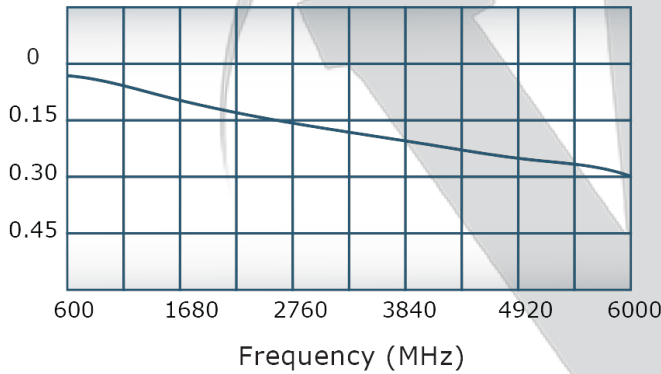
Coupling:



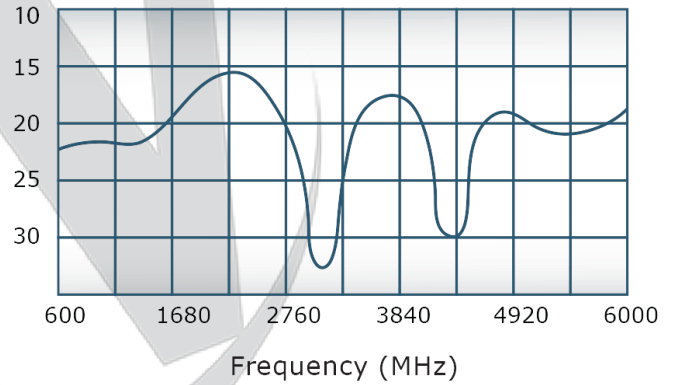
VSWR:



Insertion Loss:



Directivity:



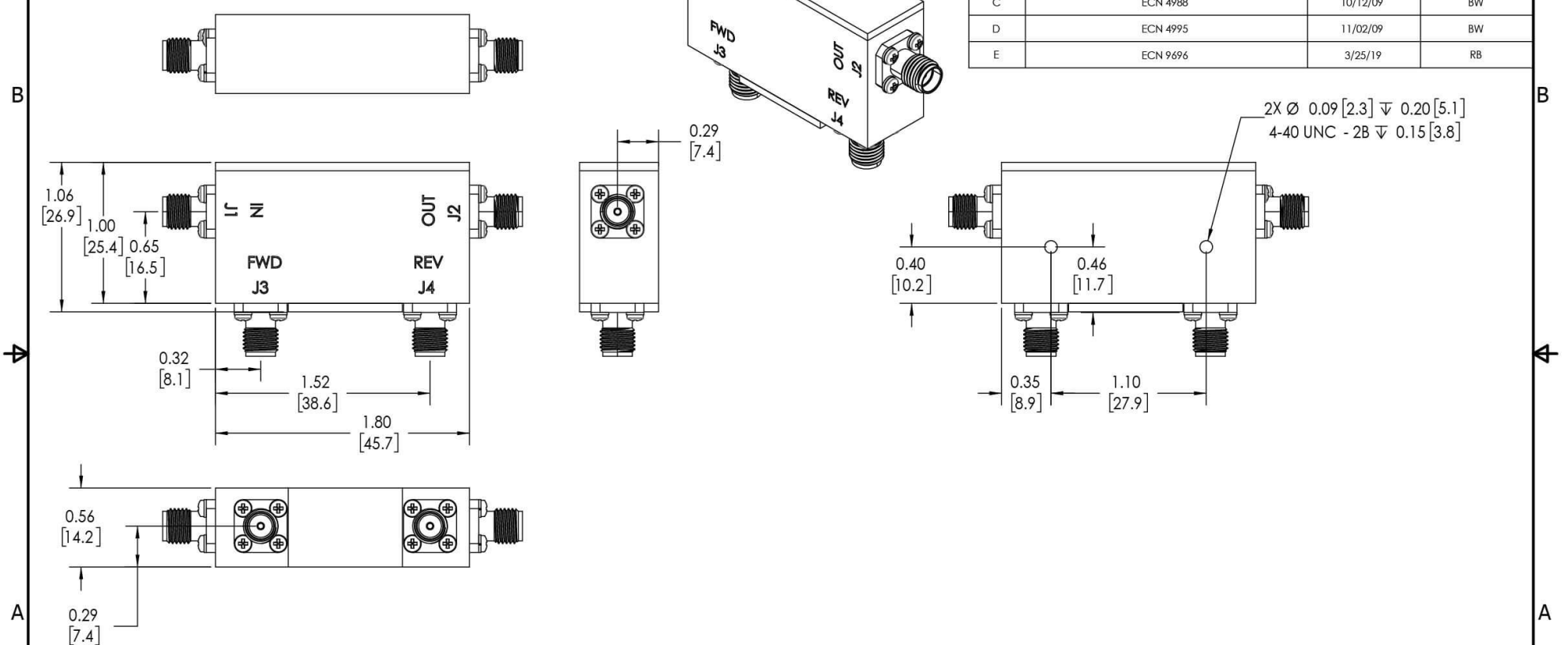
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Werlatone, Inc.

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| REVISION HISTORY | | | |
|------------------|-----------------|----------|----------|
| REV. | REVISION RECORD | DATE | APPROVED |
| A | ECN 4505 | 5/06/08 | BW |
| B | ECN 4534 | 6/02/08 | BW |
| C | ECN 4988 | 10/12/09 | BW |
| D | ECN 4995 | 11/02/09 | BW |
| E | ECN 9696 | 3/25/19 | 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: SMA FEMALE**

| | | | | |
|---|--|------------------------|-----------|--|
| UNLESS OTHERWISE SPECIFIED | | DWN | DATE | WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563 |
| INTERPRET DRAWING IAW MIL-STD-100 | | SD | 3/25/2019 | |
| DIMENSIONS PER ASME Y14.5M-2009 | | CHK | DATE | TITLE |
| PARENTHEetical INFO FOR REF ONLY | | CS | 3/25/2019 | |
| DIMENSIONS ARE IN INCHES | | ENGR | DATE | REV |
| DIMENSIONAL LIMITS APPLY BEFORE PROCESSES | | INFR | DATE | |
| TOLERANCES: | | QA | DATE | SCALE |
| ANGLES ± 2° | | RLSE | DATE | |
| 3 PL ± .005 [0.13] | | APPLICATION | | SHEET 1 OF 1 |
| 2 PL ± .015 [0.38] | | THIRD ANGLE PROJECTION | | |
| REMOVE ALL BURRS AND SHARP EDGES R.01 MAX | | | | |
| CONCENTRICITY MACHINED DIA: .002 FIM | | | | |
| MACHINE TOOL MISMATCH .003 MAX | | | | |

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