


PRODUCT DATA SHEET
C8696

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: 20 - 1000 MHz
 Power: 150 W CW
 Coupling: 40 ± 1.0 dB Max.
 Insertion Loss: 0.35 dB Max.
 Flatness: ± 0.5 dB Max.
 VSWR (ML): 1.25:1 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: 1.76 x 1.16 x 0.565"

Connector Configurations:

| Model | Input (J1) | Output (J2) | Fwd (J3) | Rev (J4) |
|-----------|------------|-------------|----------|----------|
| C8696-102 | SMA | SMA | 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.

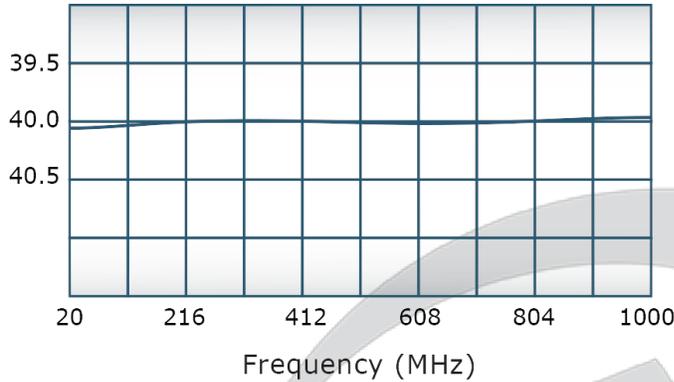


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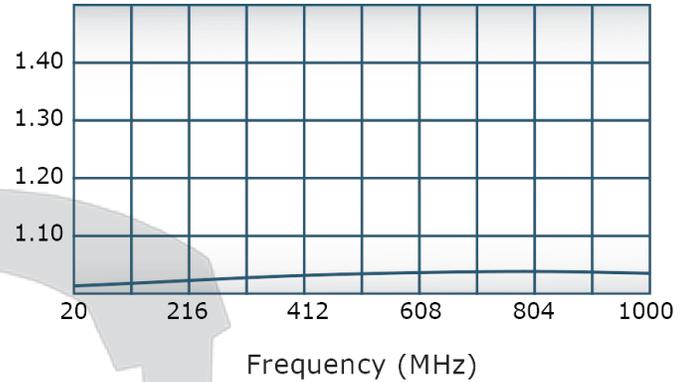
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Performance Data (Specifications subject to change without notice):

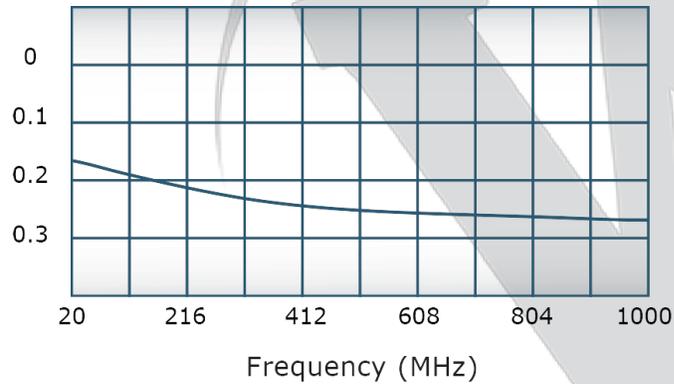
Coupling:



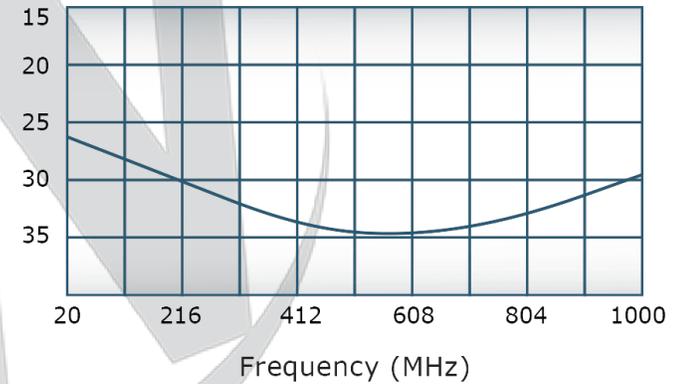
VSWR:



Insertion Loss:



Directivity:

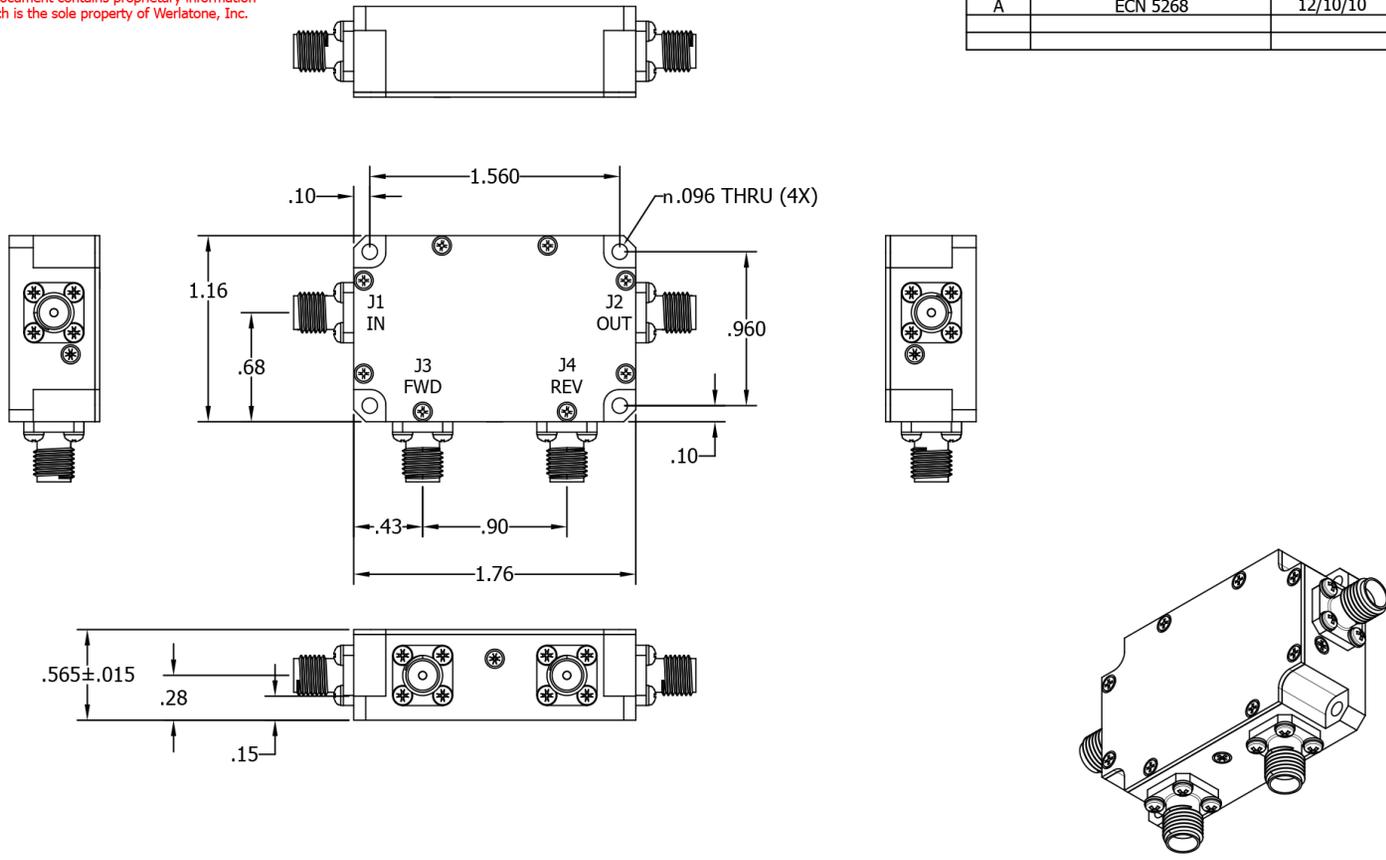


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| REVISION HISTORY | | | |
|------------------|-----------------|----------|----------|
| REV | REVISION RECORD | DATE | APPROVED |
| - | INITIAL RELEASE | 7/23/10 | BW |
| A | ECN 5268 | 12/10/10 | BW |
| | | | |



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|---|--------------|-----------|------------|---|--|-------|--------------|--------|-----|---|-------|-----------|---|
| UNLESS OTHERWISE SPECIFIED | | DWN | DATE | WERLATONE SINCE 1965 | 17 Jon Barrett Rd Patterson, NY 12563 | | | | | | | | |
| <ul style="list-style-type: none"> • INTERPRET DRAWING LAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHEetical INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° XXX ± .005 XX ± .015 • HOLE TOLERANCES ± .005 | | GP | 12/10/2010 | | | | | | | | | | |
| THIRD ANGLE PROJECTION | | CHK | DATE | <table border="1"> <tr> <td>SIZE</td> <td>CAGE CODE</td> <td>DWG NO</td> <td>REV</td> </tr> <tr> <td>A</td> <td>28812</td> <td>20675-500</td> <td>A</td> </tr> </table> | | SIZE | CAGE CODE | DWG NO | REV | A | 28812 | 20675-500 | A |
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| A | 28812 | 20675-500 | A | | | | | | | | | | |
| | | NH | 12/10/2010 | <table border="1"> <tr> <td>SCALE</td> <td colspan="2">SHEET 1 OF 1</td> </tr> <tr> <td>1:1</td> <td colspan="2"></td> </tr> </table> | | SCALE | SHEET 1 OF 1 | | 1:1 | | | | |
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| | | ENGR | DATE | | | | | | | | | | |
| | | BW | 12/10/2010 | | | | | | | | | | |
| | | MFGR | DATE | | | | | | | | | | |
| | | QA | DATE | | | | | | | | | | |
| | | RLSE | DATE | | | | | | | | | | |
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