



Certificate of Compliance

Certificate: 2162711

Master Contract: 205078

Project: 2431959

Date Issued: June 14, 2011

Issued to: Analog Devices Inc.

804 Woburn St
Wilmington, MA 01887-3462
USA
Attention: Al McEvoy

*The products listed below are eligible to bear
the CSA Mark shown with adjacent indicator*



Martin Buchanan

Issued by: Martin Buchanan, P. Eng.

PRODUCTS

CLASS 9073 30 - ELECTRONIC COMPONENTS - Optoisolators

Component Acceptance of Optoisolator Like Magnetic Coupling Devices:

| Device | Ratings (kV) (C) | Stds/Notices | Internal Creep(mm) | DistThru(mm) | External Creep(mm) |
|-----------------|---------------------|--|-----------------------|--------------|-----------------------|
| ADuM3160BRWZ | 2.5 105 | CA5A, 14-10, | - | - | 7.7 |
| ADuM3160WBRWZab | | 60950-1-07, IEC60950-1 2nd Ed. | | | |
| ADuM4160BRWZ | 5.0 105 | CA5A, 14-10, | - | - | 7.7 |
| ADuM4160WBRWZab | | 60950-1-07, 601.1M-90, 601.1S1-94, 601.1B-98, | | | |



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|-----------------|-----|-----|-------------------------|---|---|-----|
| | | | IEC 60950-1 2nd Ed., | | | |
| | | | IEC 601-1 2nd Ed. | | | |
| | | | Clauses 8.5.5.1, 8.8.3, | | | |
| | | | 8.9.1.15, 8.9.3.3 of | | | |
| | | | CSA 60601-1:08 and | | | |
| | | | IEC 60601-1 3rd Ed. | | | |
| ADuM4160BRIZ | 5.0 | 105 | CA5A, 14-10, | - | - | 8.3 |
| ADuM4160WBRIZab | | | 60950-1-07, | | | |
| | | | 601.1M-90, | | | |
| | | | 601.1S1-94, | | | |
| | | | 601.1B-98, | | | |
| | | | IEC 60950-1 2nd Ed., | | | |
| | | | IEC 601-1 2nd Ed. | | | |
| | | | Clauses 8.5.5.1, 8.8.3, | | | |
| | | | 8.9.1.15, 8.9.3.3 of | | | |
| | | | CSA 60601-1:08 and | | | |
| | | | IEC 60601-1 3rd Ed. | | | |

where, Z, if used, indicates the lead-free version. Suffix ab is a 2 digit number denoting specific supply voltage combinations. Further suffix letters or digits differentiate shipping package formats.

Notes:

1. All models meet basic insulation requirements for 600Vrms (849Vp) for CSA 60950-1-07 and IEC 60950-1 2nd Ed.
2. ADuM4160BRWZ and ADuM4160WBRWZab meet reinforced insulation requirements for 380Vrms for CSA 60950-1-07 and IEC 60950-1 2nd Ed.
3. ADuM4160BRIZ and ADuM4160WBRIZab meet reinforced insulation requirements for 400Vrms for CSA 60950-1-07 and IEC 60950-1 2nd Ed.



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4. ADuM4160BRWZ and ADuM4160WBRWZab meet reinforced insulation requirements for 125Vrms for CSA 601.1M-90, 601.1S1-94, 601.1B and IEC 601-1 2nd Ed.

5. ADuM4160BRIZ and ADuM4160WBRIZab meet reinforced insulation requirements for 250Vrms for CSA 601.1M-90, 601.1S1-94, 601.1B and IEC 601-1 2nd Ed.

6. For CSA 60601-1:08 and IEC60601-1 3rd Ed. for 2 MOPP for 125Vrms, models ADuM4160BRWZ and ADuM4160WBRWZab meet clauses 8.5.5.1, 8.8.3, 8.9.1.15, and 8.9.3.3. The risk management process is not applicable to these clauses.

7. For CSA 60601-1:08 and IEC60601-1 3rd Ed. for 2 MOPP for 250Vrms, models ADuM4160BRIZ and ADuM4160WBRIZab meet clauses 8.5.5.1, 8.8.3, 8.9.1.15, and 8.9.3.3. The risk management process is not applicable to these clauses.

8. Evaluated by thermal cycling and other tests for a temperature rating of 105C.

9. The creepage and clearance has been evaluated for altitudes $\leq 2000\text{m}$, in pollution degree 2 and overvoltage category II for 60950-1 and overvoltage category III for 60601 3rd Ed.

These devices are Component Accepted as components for use in other Certified equipment where the suitability of the combination shall be determined by investigation in the final application.

APPLICABLE REQUIREMENTS

Component Acceptance Notice 5A (CA 5A) - Announcement of Extension of the Component

Acceptance Service for Optocouplers and Related

Devices

CAN/CSA-C22.2 No 14-05 - Industrial Control Equipment

CAN/CSA-C22.2 No 60950-1-07 - Information Technology Equipment - Safety - Part 1: General Requirements (Bi-national Standard, with UL 60950-1)

CAN/CSA C22.2 601.1-M90 adopted IEC 601-1 2ed (90) - Medical Electrical Equipment Part 1: General requirements for Safety

CAN/CSA C22.2 601.1S1-94 - Supplement No 1-94 to CAN/CSA C22.2 601.1-M90

CAN/CSA C22.2 601.1B-98 - Amendment 2 to CAN/CSA C22.2 601.1-M90

IEC 60950-1 2nd Ed. - Information Technology Equipment - Safety - Part 1: General Requirements



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IEC 601-1 (1988-12) - Medical Electrical Equipment - Part 1: General Requirements for Safety)

IEC 601-1-AM1 (1991-11) - Medical Electrical Equipment - Part 1: General Requirements for Safety)

IEC 601-1-AM2 (1995-03) - Medical Electrical Equipment - Part 1: General Requirements for Safety)

Clauses 8.5.5.1, 8.8.3, 8.9.1.15 and 8.9.3.3

of

CAN/CSA C22.2 60601-1:08 - Medical Electrical Equipment Part 1: General requirements for basic safety and general performance

and

IEC60601-1 3rd Ed. - Medical Electrical Equipment Part 1: General requirements for basic safety and general performance