



# Certificate of Compliance

**Certificate:** 2638209 **Master Contract:** 205078 (205078)

**Project:** 70046641 **Date Issued:** 2016-10-26

**Issued to:** Analog Devices Inc.  
 804 Woburn St  
 Wilmington, Massachusetts 01887-3462  
 USA  
 Attention: Mark Cantrell

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



**Issued by:** Martin Buchanan  
 Martin Buchanan, P. Eng.

**PRODUCTS**

CLASS - C907330 - ELECTRONIC COMPONENTS-Optoisolators

Component Acceptance of Optoisolator Like Magnetic Coupling Devices:

Device (SOIC 16W RI package)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ADuM4070ARIZ	5.0	105	CSA CA5A, 14-13 Tbl 35, 6.2.1.1, 6.2.1.1/6.2.10, 6.8.1.1 60950-1-07+A1+A2 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2 61010-1-12+A1 K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10 60601-1:14 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7  IEC 60950-1 2nd Ed.,+A1+A2 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2 61010-1 3 <sup>rd</sup> Ed K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10 60601-1 Ed.3+A1 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7	-	-	8.7



**Certificate:** 2638209  
**Project:** 70046641

**Master Contract:** 205078  
**Date Issued:** 2016-10-26

Device (SOIC 16W RI package)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			EN 60950-1:2006+A1+A12+A2 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2			

where Z, if used, indicates the lead-free version. Suffix EP at the end of the base part number indicates lower extended temperature capability to -55C with a NiPdAu lead finish. Further suffix letters or digits differentiate shipping package formats.

Notes:

1. These devices meet basic insulation requirements for 870Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2.
2. These devices meet reinforced insulation requirements for 435Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
3. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed. for 600Vrms, overvoltage category IV for basic and 300Vrms, overvoltage category III for reinforced insulation, the devices meet clauses K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10. The risk management process is not applicable to these clauses. (pollution degree 2, material group III)
4. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 250Vrms, the devices meet clauses 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7. The risk management process is not applicable to these clauses.
4. Case Material: Multiple mold compounds have been evaluated. All meet at least material group II.
5. Evaluated by thermal cycling and other tests for a temperature rating of 105C.
6. The creepage and clearance has been evaluated for altitudes ≤ 2000m, in pollution degree 2 and overvoltage category II except where specified above. (pollution degree 2, material group III).

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 14-13 - Industrial Control Equipment

CAN/CSA-C22.2 No 60950-1-07+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements (Bi-national Standard, with UL 60950-1)

IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements

EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements

Clauses K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10

of

CAN/CSA-C22.2 No. 61010-1-12+A1 2015 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements



**Certificate:** 2638209  
**Project:** 70046641

**Master Contract:** 205078  
**Date Issued:** 2016-10-26

---

(Tri-national standard, with UL 61010-1 Ed. 3 and ANSI/ISA-61010-1 (82.02.01))

and

IEC 61010-1:2010 3<sup>rd</sup> Ed.

- Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements

Clauses 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7

of

CAN/CSA C22.2 60601-1:14

- Medical Electrical Equipment Part 1: General requirements for basic safety and general performance (Adopted IEC60601-1:2005 Edition 3.0 +Amendment 1, 2012-07, MOD)

and

IEC60601-1:2005 Ed 3.0+A1

- Medical Electrical Equipment Part 1: General requirements for basic safety and general performance



## *Supplement to Certificate of Compliance*

**Certificate:** 2638209

**Master Contract:** 205078 (205078)

*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

---

<b>Project</b>	<b>Date</b>	<b>Description</b>
70046641	2016-10-26	Update to 2638209 for alternative mould compound and leadframe based on results for similar devices from other report(s)
2638209	2013-12-11	Original Component Acceptance