Certificate of Compliance

Certificate: 80157124 **Master Contract:** 205078

Project: 80157124 **Date Issued:** 2024-09-20

Issued To: **Analog Devices Inc.**
804 Woburn St
Wilmington, Massachusetts, 01887-3462
United States

Attention: IvyMae Tejero

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C', 'US' and▲

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

PRODUCTS

CLASS - C907330 - ELECTRONIC COMPONENTS Optoisolators and non-optical isolating devices
CLASS - C907391 - ELECTRONIC COMPONENTS Optoisolators and non-optical isolating devices - Certified to US Standards

Component Acceptance of Optoisolator Like Devices:

Device SOIC20 W (RI-20-1)	Rating		Standard/Notice and Clauses	Internal		External
	kV	˚C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ADUM4165BRIZ ADUM4166BRIZ	5.7	125	CSA 14-18(R2022) tb35, 6.21.4.1, 6.2.1/6.2.12, 6.8.1 62368-1:19, UPD1:2021 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.8, 5.4.1.5.3, 5.4.9.1, 5.4.1.4 61010-1-12+A1 6.7.1.3, 6.7.2.1 or tbK.1 to K.4, 6.7.2.2.1, 6.7.2.2.2 or tbK.9, A.17, tbK.5x1.6, K.6x1.6, K.7x1.6, 10	-	-	8.3

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Device SOIC20 W (RI-20-1)	Rating		Standard/Notice and Clauses	Internal		External
	kV	˚C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			60601-1:14 (R2022)+A1+A2 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7 IEC 62368-1:2018 Ed. 3 3 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.8, 5.4.1.5.3, 5.4.9.1, 5.4.1.4 61010-1 3rd Ed+A1 6.7.1.3, 6.7.2.1 or tbK.1 to K.4, 6.7.2.2.1, 6.7.2.2.2 or tbK.9, A.17, tbK.5x1.6, K.6x1.6, K.7x1.6, 10 60601-1 Ed.3+A1+A2 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7 EN 62368-1:2020+A11:2020 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.8, 5.4.1.5.3, 5.4.9.1, 5.4.1.4 UL ANSI/UL 1577-2015(R2023) Standard for Optical Isolators - Single protection			

where Z if used indicates the lead-free version. Suffix EP if present 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. For ANSI/UL 1577-2015(R2023), the case temperature must be limited to 130C.
2. The devices meet basic insulation requirements for 830Vrms and reinforced insulation requirements for 415Vrms for CSA 62368-1:19, UPD1:2021, IEC 62368-1:2018 Ed. 3 and EN 62368-1:2020+A11:2020. (pollution degree 2, material group III)
3. For CSA 61010-1-12+A1 and IEC 61010-1 3rd Ed. the devices meet 600Vrms for basic insulation and 300V for reinforced insulation based on 61010-1 Cl 14.1 a) for use in 61010-1 end products because they meet the requirements of the 62368-1 evaluation. The risk management process is not applicable to these clauses. (pollution degree 2, material group III)
4. For CSA 60601-1:14 (R2022) and IEC 60601-1:2005 Ed 3.0+A1+A2 for 1 MOPP for 519Vrms and 2 MOPP for 50Vrms, the devices meet clauses 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.
5. Case material: CTI 600V with errosion depth 0.36mm, Material group I.
6. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
7. 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

CSA C22.2 No. 14-18+Upd.1 (Thirteenth Edition)(R2022) - Industrial control equipment - Thirteenth Edition; Update No. 1: June 2022

CSA C22.2 No. 62368-1:19+Upd.1 (Third Edition) - Audio/video, information and communication technology equipment — Part 1: Safety requirements - Third Edition; Update No. 1: October 2021

IEC 62368-1:2018 - Audio/video, information and communication technology equipment – Part 1: Safety requirements - Edition 3.0

EN 62368-1: 2020/A11:2020 - Audio/video, information and communication technology equipment - Part 1: Safety requirements - Incorporates Amendment A11: 2020

CAN/CSA C22.2 No. 61010-1-12; UPD1:2015; UPD2:2016; AMD1:2018 - Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements

IEC 61010-1:2017 - Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General
requirements - Edition 3.1; Consolidated Reprint

CSA C22.2 60601-1:14 (R2022) - Medical electrical equipment - Part 1: General requirements for basic safety and essential
performance - Third Edition

IEC 60601-1:2005/AMD1:2012/AMD2:2020 - Medical electrical equipment – Part 1: General requirements for basic safety and essential performance - Edition 3.2; Consolidated Reprint; Incorporates Amendment 1: 2012, Corrigenda 1: 12/2012, Corrigenda to Amendment 1: 07/2014, Interpretation 1: 04/2008, Interpretation 2: 01/2009, and Interpretation 3: 05/2013 and Amendment 2: 08/2020

ANSI/UL 1577-2015(R2023) - Standard for Optical Isolators

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Notes:

Products certified under Class(es) C907330 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

Supplement to Certificate of Compliance

Certificate: 80157124 **Master Contract:** 205078

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

Product Certification History

Project	Date	Description
80157124	2024-09-20	Original Component Acceptance ADuM4165 ADuM4166 SOIC20 W RI-20-1