Certificate of Compliance

Certificate: 70128419 **Master Contract:** 220991

Project: 80061131 **Date Issued:** 2021-03-30

Issued To: **Texas Instruments, Inc.**
12500 TI Blvd
MS 8701
Dallas, Texas, 75243
United States

Attention: Saleem Marwat

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 and non-optical isolating devices

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device (SOIC 16W DW-16)	Ratings kV	Ratings °C	Clauses of Standard/Notice	Internal Creepage (mm)	Internal Dist Thru (mm)	External Creep/Clear (mm)
ISOW7820DWE ISOW7820FDWE ISOW7821DWE ISOW7821FDWE ISOW7822DWE ISOW7822FDWE ISOW7820QDWEQ1 ISOW7820FQDWEQ1 ISOW7821QDWEQ1	5.0	Note 1	CSA 14-18 Tbl 35, 6.2.1, 6.2.1/6.2.12, 6.8 1, 6 21.4.1 62368-1:19 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 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	-	-	8.0

Certificate: 70128419
Project: 80061131

Master Contract: 220991
Date Issued: 2021-03-30

Device (SOIC 16W DW-16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISOW7821FQDWEQ1 ISOW7822Q1DWEQ1 ISOW7822FQDWEQ1 ISOW7840DWE ISOW7840FDWE ISOW7841DWE ISOW7841FDWE ISOW7842DWE ISOW7842FDWE ISOW7843DWE ISOW7843FDWE ISOW7844DWE ISOW7844FDWE ISOW7840QDWEQ1 ISOW7840FQDWEQ1 ISOW7841QDWEQ1 ISOW7841FQDWEQ1 ISOW7841AQDWEQ1 ISOW7841FAQDWEQ1 ISOW7842QDWEQ1 ISOW7842FQDWEQ1 ISOW7843QDWEQ1 ISOW7843FQDWEQ1 ISOW7844QDWEQ1 ISOW7844FQDWEQ1			IEC 62368-1:2018 Ed. 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 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 EN 62368-1:2020 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			

Suffix R may be used after DWE for reel packaging.(R may be placed before Q1. Q and Q1 are used together.)

Notes:

1. The rating for reinforced insulation is 90C and the rating for basic insulation is 125C.
2. These devices meet basic insulation requirements for 800Vrms for CSA 62368-1:19 and IEC 62368-1:2018 (pollution degree 2, material group III)
3. These devices meet reinforced insulation requirements for 400Vrms for CSA 62368-1:19 and IEC 62368-1:2018 (pollution degree 2, material group III)
4. For CSA 61010-1-12+A1 and IEC 61010-1 3rd Ed. for 600Vrms, overvoltage category IV for basic 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.
5. For CSA 61010-1-12+A1 and IEC 61010-1 3rd Ed these devices meet 300Vrms, overvoltage category III 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.

6. 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.
7. Case material CTI=600V, erosion depth 0.012mm. (meets material group I)
8. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
9. The creepage and clearance has been evaluated for altitudes ≤ 2000m, in pollution degree 2, material group III and overvoltage category II except where specified otherwise.

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

CAN/CSA-C22.2 No 14-18 - Industrial Control Equipment
CAN/CSA-C22.2 No. 62368-1:19 - Audio/video, information and communication technology equipment - Part 1: Safety requirements (Bi-national Standard with ANSI/UL 62368-1-2019)
IEC 62368-1:2018 Ed. 3 - Audio/video, information and communication technology equipment - Part 1: Safety requirements
EN 62368-1:2020 - Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2018)

Clauses 6.7.1.3, 6.7.2.1 or K.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
of
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 (Tri-national standard, with UL 61010-1 Ed. 3 (2012), AMD1: 2018 and ANSI/ISA-61010-1 (82.02.01))

IEC 61010-1:2010 Ed. 3.1:2017 01 - 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

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI’s products are provided subject to TI’s Terms of Sale or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI’s provision of these resources does not expand or otherwise alter TI’s applicable warranties or warranty disclaimers for TI products.

TI objects to and rejects any additional or different terms you may have proposed.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265