



# Certificate of Compliance

**Certificate:** 1698195 **Master Contract:** 220991 (220991)

**Project:** 70094752 **Date Issued:** 2018-02-15

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA  
 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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Standard/Notice and Clauses	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO721yD ISO721MyD ISO722yD ISO722MyD	2.0	125	CSA 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 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 62368-1:2014 Ed. 2 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2	-	-	4.0



**Certificate:** 1698195  
**Project:** 70094752

**Master Contract:** 220991  
**Date Issued:** 2018-02-15

where M may be replaced by other letters for filtering and where y represents an optional Q. Suffixes may be used for different shipping package types. A further suffix Q1 may or may not be used when the optional Q is used.

Notes:

1. Basic insulation requirements have been met for 400Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed. +A1+A2. (pollution degree 2, material group III)
2. Basic Insulation requirements have been met for 300Vrms including 230/400Vrms and 277/480Vrms but not exceeding 400Vrms for CSA 62368-1-14 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III).
3. Reinforced insulation requirements have been met for 148Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed. +A1+A2. (pollution degree 2, material group III)
4. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
5. The creepage and clearance has been evaluated for altitudes  $\leq$  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 14-13 - 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)
- CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements
- IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
- IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety requirements



## *Supplement to Certificate of Compliance*

**Certificate:** 1698195

**Master Contract:** 220991 (220991)

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70094752	2018-02-15	Addition of EME-G700-FGT moulding compound
70060373	2016-05-02	Change of lead frame
2705730	2014-04-17	Addition of Q and Q1 models
1985969	2008-01-07	Update for report revisions (deletion of thru air values on cert and title page)
1873467	2007-03-06	Change of production location from Texas Instruments de Mexico s. de RL de CV (4718825) to HANA Semiconductor (Ayutthaya) Co. Ltd. (4657036).
1752411	2006-03-22	Addition of ISO722D and ISO722MD.
1698195	2005-12-23	Original Certification.



# Certificate of Compliance

**Certificate:** 1874387 **Master Contract:** 220991 (220991)  
**Project:** 70094756 **Date Issued:** 2018-02-15  
**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA  
 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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Standard/Notice and Clauses	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7220xyD ISO7221xyD	2.0	125	CSA 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 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 62368-1:2014 Ed. 2 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2	-	-	4.0



**Certificate:** 1874387  
**Project:** 70094756

**Master Contract:** 220991  
**Date Issued:** 2018-02-15

where x represents a letter for filtering and y represents an optional Q. Suffixes may be used for different shipping package types. A further suffix Q1 may or may not be used when the optional Q is used.

Notes:

1. Basic insulation requirements have been met for 400Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed. +A1+A2. (pollution degree 2, material group III)
2. Basic Insulation requirements have been met for 300Vrms including 230/400Vrms and 277/480Vrms but not exceeding 400Vrms for CSA 62368-1-14 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III).
3. Reinforced insulation requirements have been met for 148Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed. +A1+A2. (pollution degree 2, material group III)
4. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
5. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , 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 14-13                | - | 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) |
| CAN/CSA-C22.2 No. 62368-1-14          | - | Audio/video, information and communication technology equipment– Part 1: Safety requirements                     |
| IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2 | - | Information Technology Equipment - Safety - Part 1: General Requirements   |
| IEC 62368-1:2014 Ed. 2                | - | Audio/video, information and communication technology equipment– Part 1: Safety requirements                     |



## *Supplement to Certificate of Compliance*

**Certificate:** 1874387

**Master Contract:** 220991 (220991)

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70094756	2018-02-15	Addition of EME-G700-FGT moulding compound.
70060376	2016-05-02	Change of lead frame
2705713	2014-04-09	Addition of Q and Q1 models
2514508	2012-06-04	Addition of G825-73B moulding compound
2454147	2011-11-08	Addition of B suffix models
2348491	2010-09-14	Update markings description
1985977	2008-01-07	Update for report revisions (deletion of thru air value on Cert and title page)
1874387	2007-04-11	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 1969047 (220991)

**Master Contract:** 220991

**Project:** 70060403

**Date Issued:** 2016-03-21

**Issued to:** Texas Instruments, Inc.  
12500 TI Blvd  
MS 8701  
Dallas, Texas 75243  
USA

**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

Component Acceptance of Surface-Mount Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Applicable Standards/Notices	Internal		External
	V <sub>peak</sub>	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7230 ISO7231 ISO7240 ISO7241 ISO7242	4000	125	CSA CA5A, CSA 14-13, CSA 60950-1-07 +A1+A2 IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2	-	-	8.0

with suffix A, C, CF or M for different bit rates (F for fail safe logic), followed by optional Q, followed by D, followed by W and optional R for reel packaging followed by optional Q1.

### Notes:

1. Evaluated to CSA60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 for products with working voltages  $\leq 366V_{rms}$  for basic insulation.
2. Evaluated for to CSA 14-13 for products rated  $\leq 750V_{rms}$ .
3. 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.



**Certificate:** 1969047  
**Project:** 70060403

**Master Contract:** 220991  
**Date Issued:** 2016-03-21

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**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





## *Supplement to Certificate of Compliance*

**Certificate:** 1969047 (220991)

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70060403	2016-03-21	Change of lead frame
2705710	2014-04-30	Addition of Q and Q1 models and alternative moulding compound EME-G700-FGT
2493449	2012-02-07	Correct material to GR825-73B from EME-G700HA
1969047	2008-01-07	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 2454143 (220991)

**Master Contract:** 220991

**Project:** 70060395

**Date Issued:** 2016-04-21

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA

**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

Component Acceptance of SOIC Surface-Mount Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Applicable Standards/Notices	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7420E ISO7420FE ISO7421E ISO7421FE ISO7421FCC ISO7420M ISO7421M ISO7420-Q1 ISO7421-Q1 ISO7421A-Q1	2.5	125	CSA CA5A, 14-13, 60950-1-07+A1+A2 61010-1-04 IEC 60950-1 2nd Ed.+A1+A2 IEC61010-1 2nd Ed.	-	-	4.0
ISO7420 ISO7421	2.5	105				

Suffixes D and R may be used for different shipping package types followed by optional suffix Q1 and optional suffix Q may precede D.



**Certificate:** 2454143  
**Project:** 70060395

**Master Contract:** 220991  
**Date Issued:** 2016-04-21

Notes:

1. Devices meet CSA 14-13 for 500V rated products when pcb mounted.
2. Reinforced insulation requirements have been met for 150Vrms for, CSA 61010-1-04 and IEC 61010-1 2<sup>nd</sup> Ed.
3. Basic insulation requirements have been met for 280Vrms for CSA 60950-1-07+A1+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, and for 300Vrms for CSA 61010-1-04 and IEC 61010-1 2<sup>nd</sup> Ed.
4. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
5. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , in pollution degree 2 and overvoltage category II.

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)

CAN/CSA-C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements

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

IEC 61010-1 2<sup>nd</sup> Ed. 2001 02 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements



## *Supplement to Certificate of Compliance*

**Certificate:** 2454143 (220991)

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70060395	2016-04-21	Change of lead frame
2705711	2014-04-30	Addition of Q and Q1 models and alternative moulding compound GR825-73B
2557796	2012-09-05	Correction from 360 to 300V for max working voltage for 61010-1
2514507	2012-06-04	Addition of G700-FGT moulding compound
2454143	2011-11-28	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 2649067 (220991)

**Master Contract:** 220991

**Project:** 70060399

**Date Issued:** 2016-03-21

**Issued to:** Texas Instruments, Inc.  
12500 TI Blvd  
MS 8701  
Dallas, Texas 75243  
USA

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Applicable Standards/Notices	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7420FCCD	3.0	125	CSA CA5A 14-13 60950-1-07+A1+A2 61010-1-12+A1 IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2 IEC 61010-1 3 <sup>rd</sup> Ed.	-	-	4.0

Suffixes may be used for different shipping package types.

### Notes:

1. Reinforced insulation requirements have been met for 200Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup>Ed.+A1+A2 and 150Vrms for CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed.
2. Basic insulation requirements have been met for 400Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 and 300V for CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed.
3. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
4. The creepage and clearance has been evaluated for altitudes ≤ 2000m, in pollution degree 2 and overvoltage



**Certificate:** 2649067  
**Project:** 70060399

**Master Contract:** 220991  
**Date Issued:** 2016-03-21

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category II.

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)
- CAN/CSA-C22.2 No. 61010-1-12+A1 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements
- IEC 60950-1:2005 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
- IEC 61010-1:2010 3<sup>rd</sup> Ed. - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements



## *Supplement to Certificate of Compliance*

**Certificate:** 2649067 (220991)

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70060399	2016-03-21	Change of lead frame
2649067	2013-11-11	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 2454141 (220991)

**Master Contract:** 220991

**Project:** 70060409

**Date Issued:** 2016-02-26

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Applicable Standards/Notices	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creepage (mm)
ISO7520CDW ISO7521CDW	5.0	105	CSA CA5A, 14-13,	-	-	8.0
ISO7520EDW ISO7520FEDW ISO7520FCCDW ISO7521EDW ISO7521FEDW ISO7521FCCDW	5.0	125	60950-1-07+A1+A2, 61010-1-04 IEC 601-1 2 <sup>nd</sup> Ed. IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2 IEC61010-1 2 <sup>nd</sup> Ed. Clauses 8.5.5.1, 8.8.3, 8.9.1.15, 8.9.3.3 of CSA 60601-1:14 and IEC 60601-1 Ed. 3+A1			
ISO7421EQDWRQ1	2.5kV	125C	CSA CA5A, 14-13, 60950-1-07 +A1+A2,	-	-	7.6





**Certificate:** 2454141  
**Project:** 70060409

**Master Contract:** 220991  
**Date Issued:** 2016-02-26

			61010-1-04 IEC 60950-1 2nd Ed.+A1+A2 IEC61010-1 2nd Ed.			
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Suffixes may be used to differentiate shipping package types.

Notes:

1. Devices meet CSA 14-13 for 600V rated products when pcb mounted.
2. Except ISO7421EQDWRQ1, devices meet to CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 for products with working voltages up to 400V and to CSA 61010-1-04 and IEC 61010-1, 2<sup>nd</sup> Ed. for products with working voltages up to 300V for reinforced insulation.
3. Except for ISO7421EQDWRQ1, basic insulation requirements have been met for 800V for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 and 600V for CSA 61010-1-04 and IEC 61010-1 2<sup>nd</sup> Ed. ISO7421EQDWRQ1 meets basic insulation requirements for 280V for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 and for 300V for CSA 61010-1-04 and IEC 61010-1 2<sup>nd</sup> Ed.
4. Except ISO7421EQDWRQ1, for CSA 60601-1:14 and IEC60601-1 Ed. 3+A1 for 2 MOPP for 125Vrms, the devices 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.
5. Evaluated by thermal cycling and other tests.
6. The creepage and clearance has been evaluated for altitudes ≤ 2000m, in pollution degree 2 and overvoltage category II.

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)
- CAN/CSA-C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements
  
- IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
- IEC 61010-1 2nd Ed. 2001 02 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements
- 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



**Certificate:** 2454141  
**Project:** 70060409

**Master Contract:** 220991  
**Date Issued:** 2016-02-26

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of  
CAN/CSA C22.2 60601-1:14 - Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance (Adopted IEC 60601-1:2005 edition 3.0 + AMENDEMENT 1, 2012-07, MOD)

and  
IEC60601-1:2005 Ed. 3+A1 - Medical Electrical Equipment Part 1: General requirements for basic safety and general performance



## *Supplement to Certificate of Compliance*

**Certificate:** 2454141 (220991)

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70060409	2016-02-26	Change of lead frame
2705712	2014-04-30	Addition of Q and Q1 models
2558732	2012-09-06	Correction to 61010-1 working voltage from 380 to 300V
2454141	2011-11-29	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 2454142 (220991)

**Master Contract:** 220991

**Project:** 70060406

**Date Issued:** 2016-03-21

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA

**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

Component Acceptance of SOIC Surface-Mount Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Applicable Standards/Notices	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7631xyDW ISO7640xyDW ISO7641xyDW	5.0	125	CSA CA5A, 14-10, 60950-1-07+A1+A2, 61010-1-04 IEC 601-1 2 <sup>nd</sup> Ed. IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2 IEC61010-1 2 <sup>nd</sup> Ed. Clauses 8.5.5.1, 8.8.3, 8.9.1.15, 8.9.3.3 of CSA 60601-1:14 and IEC 60601-1 Ed.3+A1	-	-	8.0

where x represents F for default output state low or no letter for default output state high, y represents a letter for the speed grade. Suffixes may be used for different shipping package types.



**Certificate:** 2454142  
**Project:** 70060406

**Master Contract:** 220991  
**Date Issued:** 2016-03-21

Notes:

1. Devices meet CSA 14-13 for 1000V rated products when pcb mounted.
2. Reinforced insulation requirements have been met for 400Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 and 300V for CSA 61010-1-04 and IEC 61010-1 2<sup>nd</sup> Ed.
3. Basic insulation requirements have been met for 800Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed. +A1+A2 and 600V for CSA 61010-1-04 and IEC 61010-1 2<sup>nd</sup> Ed.
4. The devices meet reinforced insulation requirements for 125Vrms for IEC 601-1 2<sup>nd</sup> Ed.
5. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 125Vrms, the devices 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.
6. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
7. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , in pollution degree 2 and overvoltage category II.

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)

CAN/CSA-C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements

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

IEC 61010-1 2<sup>nd</sup> Ed. 2001 02 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements

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 60601-1:14 - Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance (Adopted IEC 60601-1:2005 edition 3.0 + AMENDEMENT 1, 2012-07, MOD)

and

IEC60601-1:2005 Ed. 3+A1 - Medical Electrical Equipment Part 1: General requirements for basic safety and general performance



## *Supplement to Certificate of Compliance*

**Certificate:** 2454142 (220991)

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70060406	2016-03-21	Change of lead frame
2557795	2012-09-05	Correction to model number to include ISO7641
2454142	2011-11-22	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 2649195

**Master Contract:** 220991

**Project:** 70025510

**Date Issued:** 2015 05 20

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd.  
 MS 8701  
 Dallas, TX 75243  
 USA

**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 9073 30** - ELECTRONIC COMPONENTS - Optoisolators

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Applicable Standards/Notices	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7131CCDBQ ISO7140CCDBQ ISO7140FCCDBQ ISO7141CCDBQ ISO7141FCCDBQ ISO7142CCDBQ ISO7142CCQDBQQ1	3.0	125	CSA CA5A 14-13 60950-1-07+A1+A2 61010-1-12 IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2 IEC 61010-1 3 <sup>rd</sup> Ed.	-	-	3.7

Suffix R may be used after DBQ for different shipping package type.

Notes:

1. Reinforced insulation requirements have been met for 185Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup>Ed.+A1+A2 and 150Vrms for CSA 61010-1-12 and IEC 61010-1 3<sup>rd</sup> Ed.
2. Basic insulation requirements have been met for 370Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed. +A1+A2 and 300V for CSA 61010-1-12 and IEC 61010-1 3<sup>rd</sup> Ed.



**Certificate:** 2649195  
**Project:** 70025510

**Master Contract:** 220991  
**Date Issued:** 2015 05 20

3. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
4. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , in pollution degree 2, material group III and overvoltage category II.

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)
- CAN/CSA-C22.2 No. 61010-1-12 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements
- IEC 60950-1:2005 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
- IEC 61010-1:2010 3<sup>rd</sup> Ed. - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements





## *Supplement to Certificate of Compliance*

**Certificate:** 2649195

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70025510	May 20 2015	Update to include automotive devices with Q and Q1 suffixes
2649195	Nov 27 2013	Original Component Acceptance



# Certificate of Compliance

Certificate: 70016691 (220991)

Master Contract: 220991

Project: 70060382

Date Issued: 2016-04-21

Issued to: Texas Instruments, Inc.  
12500 TI Blvd  
MS 8701  
Dallas, Texas 75243  
USA

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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Applicable Standards/Notices	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7310CQDQ1 ISO7310FCQDQ1 ISO7320CQDQ1 ISO7320FCQDQ1 ISO7321CQDQ1 ISO7321FCQDQ1	3.0	125	CSA CA5A 14-13 60950-1-07+A1+A2 61010-1-12+A1 IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2 IEC 61010-1 3 <sup>rd</sup> Ed.	-	-	4.0

Suffixes Q and Q1 are optional and used for automotive-grade device selection. Commercial-grade devices don't use Q and Q1 suffixes. Suffix R is optional and used for reel shipping packing type.

### Notes:

1. Reinforced insulation requirements have been met for 200Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup>Ed.+A1+A2.
2. Basic insulation requirements have been met for 400Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup>



**Certificate:** 70016691

**Project:** 70060382

**Master Contract:** 220991

**Date Issued:** 2016-04-21

Ed. +A1+A2 and 300V for CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed.

3. Evaluated by thermal cycling and other tests for a temperature rating of 125C.

4. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , 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**

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)

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

IEC 60950-1:2005 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements

IEC 61010-1:2010 3<sup>rd</sup> Ed. - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements



## *Supplement to Certificate of Compliance*

**Certificate:** 70016691 (220991)

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70060382	2016-04-21	Change of lead frame
70016691	2015-04-08	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70016694

**Master Contract:** 220991

**Project:** 70016694

**Date Issued:** 2015 04 07

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd.  
 MS 8701  
 Dallas, TX 75243  
 USA

**Attention:** Saleem Marwat

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



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

## PRODUCTS

**CLASS 9073 30** - ELECTRONIC COMPONENTS - Optoisolators

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Applicable Standards/Notices	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7330CQDWQ1	3.0	125	CSA CA5A	-	-	8.0
ISO7330FCQDWQ1			14-13			
ISO7331CQDWQ1			60950-1-07+A1+A2			
ISO7331FCQDWQ1			61010-1-12			
ISO7340CQDWQ1			IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2			
ISO7340FCQDWQ1			IEC 61010-1 3 <sup>rd</sup> Ed.			
ISO7341CQDWQ1						
ISO7341FCQDWQ1						
ISO7342CQDWQ1						
ISO7342FCQDWQ1						

Suffixes Q and Q1 are optional and used for automotive-grade device selection. Commercial-grade devices don't use Q and Q1 suffixes. Suffix R is optional and used for reel shipping packing type.



**Certificate:** 70016694  
**Project:** 70016694

**Master Contract:** 220991  
**Date Issued:** 2015 04 07

Notes:

1. Reinforced insulation requirements have been met for 400Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup>Ed.+A1+A2.
2. Basic insulation requirements have been met for 800Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed. +A1+A2 and 300V for CSA 61010-1-12 and IEC 61010-1 3<sup>rd</sup> Ed.
3. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
4. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , 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**

- 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)
- CAN/CSA-C22.2 No. 61010-1-12 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements
- IEC 60950-1:2005 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
- IEC 61010-1:2010 3<sup>rd</sup> Ed. - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements



## *Supplement to Certificate of Compliance*

**Certificate:** 70016694

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70016694	Apr 7 2015	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70016684

**Master Contract:** 220991(220991)

**Project:** 70082131

**Date Issued:** 2016-11-22

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
(SOIC 16W DW-16) ISO7810QDWQ1 ISO7810FQDWQ1 ISO7820QDWQ1 ISO7820FQDWQ1 ISO7821QDWQ1 ISO7821FQDWQ1 ISO7830QDWQ1 ISO7830FQDWQ1 ISO7831QDWQ1 ISO7831FQDWQ1 ISO7840QDWQ1 ISO7840FQDWQ1	5.7	125	CSA CA5A, 14-13 Ты 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,	-	-	8.0





**Certificate:** 70016684

**Master Contract:** 220991

**Project:** 70082131

**Date Issued:** 2016-11-22

Device	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7841QDWQ1 ISO7841FQDWQ1 ISO7842QDWQ1 ISO7842FQDWQ1 SN1506011DW SN005721DW			8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7			
(DWW-16) ISO7810DWW ISO7810FDWW ISO7820DWW ISO7820FDWW ISO7821DWW ISO7821FDWW ISO7830DWW ISO7830FDWW ISO7831DWW ISO7831FDWW ISO7840DWW ISO7840FDWW ISO7841DWW ISO7841FDWW ISO7842DWW ISO7842FDWW	5.7	125	CSA CA5A, 14-13 ТЫ 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 3rd 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	-	-	14.5

Suffixes Q and Q1 are optional and used for automotive-grade device selection. Commercial-grade devices don't use Q and Q1 suffixes. Suffix R is optional and used for reel shipping packing type.

**Notes:**

1. These devices meet basic insulation requirements for 800Vrms with the DW package and for 1450Vrms with the DWW package for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 400Vrms with the DW package and for 725Vrms with the DWW package 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 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 250Vrms for DW packages and for 400V for DWW packages, 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. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> 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. (pollution degree 2, material group III)
5. Case material CTI=600V, erosion depth 0.012mm. (meets material group I)
6. Evaluated by thermal cycling and other tests for a temperature rating of 125C.



**Certificate:** 70016684

**Master Contract:** 220991

**Project:** 70082131

**Date Issued:** 2016-11-22

7. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , 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**

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 (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:** (220991)

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70082131	2016-11-22	Addition of DWW wider package models
70054441	2016-10-27	Addition of models SN1506011DW and SN00521DW
70016684	2015-04-01	Original Component Acceptance



# 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		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	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 3 <sup>rd</sup> 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 3<sup>rd</sup> 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 3<sup>rd</sup> 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.



**Certificate:** 70128419  
**Project:** 80061131

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

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  $\leq 2000\text{m}$ , 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



## *Supplement to Certificate of Compliance*

**Certificate:** 70128419

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80061131	2021-03-30	Update 70128419 to add models ISOW7841AQDWEQ1 and ISOW7841FAQDWEQ1 and update to 62368-1 Ed. 3
000070178778	2018-06-14	Addition of ISOW782xDWE
000070128419	2017-09-25	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70082130

**Master Contract:** 220991

**Project:** 70220406

**Date Issued:** 2019-10-23

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:





**Certificate:** 70082130  
**Project:** 70220406

**Master Contract:** 220991  
**Date Issued:** 2019-10-23

Device (SOIC 16W DW-16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7710DW ISO7710FDW ISO7710QDWQ1 ISO7710FQDWQ1 ISO7720DW ISO7720FDW ISO7720QDWQ1 ISO7720FQDWQ1 ISO7721DW ISO7721FDW ISO7721QDWQ1 ISO7721FQDWQ1 ISO7730DW ISO7730FDW ISO7730QDWQ1 ISO7730FQDWQ1 ISO7731DW ISO7731FDW ISO7731QDWQ1 ISO7731FQDWQ1 ISO7740DW ISO7740FDW ISO7740QDWQ1 ISO7740FQDWQ1 ISO7741DW ISO7741FDW ISO7741QDWQ1 ISO7741FQDWQ1 ISO7741EDWQ1 ISO7741EDWRQ1 ISO7741FEDWQ1 ISO7741FEDWRQ1 ISO7742DW ISO7742FDW ISO7742QDWQ1 ISO7742FQDWQ1	5.0	150	CSA 14-18 Tbl 35, 6.2.1, 6.2.1/6.2.12, 6.8.1, 6.21.4.1 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 5.4.1.4 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 62368-1:2014 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 5.4.1.4 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  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 62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2	-	-	8.0

Suffix B may be used before DW. Suffix R (R may be placed before Q1) is optional and used for reel shipping packing type.

Notes:



**Certificate:** 70082130  
**Project:** 70220406

**Master Contract:** 220991  
**Date Issued:** 2019-10-23

1. These devices meet basic insulation requirements for 800Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 400Vrms 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. These devices meet basic insulation requirements for 800Vrms for CSA 62368-1-14 and IEC 62368-1:2014. (pollution degree 2, material group III)
4. These devices meet reinforced insulation requirements for 400Vrms including for CSA 62368-1-14 and IEC 62368-1:2014. (pollution degree 2, material group III)
5. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> 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.
6. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> 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.
7. 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.
8. Case material CTI=600V, erosion depth 0.012mm. (meets material group I)
9. Evaluated by thermal cycling and other tests for a temperature rating of up to 150C.
10. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , 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 60950-1-07+A1+A2	- Information Technology Equipment - Safety - Part 1: General Requirements (Bi-national Standard, with UL 60950-1)
CAN/CSA-C22.2 No. 62368-1-14	- Audio/video, information and communication technology equipment– Part 1: Safety requirements
IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2	- Information Technology Equipment - Safety - Part 1: General Requirements
IEC 62368-1:2014 Ed. 2	- Audio/video, information and communication technology equipment– Part 1: Safety requirements
EN 60950-1:2006+A1+A12+A2	- Information Technology Equipment - Safety - Part 1: General Requirements
EN 62368-1:2014/A11:2017	- Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified)

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:** 70082130  
**Project:** 70220406

**Master Contract:** 220991  
**Date Issued:** 2019-10-23

(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:** 70082130

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220406	2019-10-23	Update for increase in temperature rating to 150C
000070178782	2018-06-14	Addition of B suffix models to 70082130
000070082130	2016-11-01	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70220405

**Master Contract:** 220991

**Project:** 70220405

**Date Issued:** 2019-10-23

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device (DWW-16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7741QDWWQ1 ISO7741FQDWWQ1	5.7	125	CSA 14-18 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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	-	-	14.5



**Certificate:** 70220405  
**Project:** 70220405

**Master Contract:** 220991  
**Date Issued:** 2019-10-23

Device (DWW-16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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  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 62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2			

Suffix R may be used after DWW for reel packaging.

Notes:

1. The devices meet basic insulation requirements for 1450Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
2. The devices meet reinforced insulation requirements for 725Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
3. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed.+A1 for 600Vrms, overvoltage category IV for basic insulation and 600Vrms, 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, 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.
4. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 400V, 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.
5. Case material CTI=600V, erosion depth 0.012mm. (meets 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, material group III and overvoltage category II except where specified above.

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.



**Certificate:** 70220405  
**Project:** 70220405

**Master Contract:** 220991  
**Date Issued:** 2019-10-23

### APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No 14-18 - 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)  
CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology  
equipment– Part 1: Safety requirements  
IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology  
equipment– Part 1: Safety requirements  
EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
EN 62368-1:2014/A11:2017 - Audio/video, information and communication technology  
equipment - Part 1: Safety requirements (IEC 62368-1:2014,  
modified)

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))

and

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



## *Supplement to Certificate of Compliance*

**Certificate:** 70220405

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220405	2019-10-23	Original Component Acceptance





# Certificate of Compliance

**Certificate:** 70178780

**Master Contract:** 220991 (220991)

**Project:** 70178780

**Date Issued:** 2018-08-16

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
(SOIC 16W DW-16) ISO7760DW ISO7760FDW ISO7760QDWQ1 ISO7760FQDWQ1 ISO7761DW ISO7761FDW ISO7761QDWQ1 ISO7761FQDWQ1 ISO7762DW ISO7762FDW ISO7762QDWQ1 ISO7762FQDWQ1	5.0	125	CSA 14-18 Tbl 35, 6.2.1, 6.2.1/6.2.12, 6.8.1, 6.21.4.1 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 5.4.1.4 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	-	-	8.0



**Certificate:** 70178780  
**Project:** 70178780

**Master Contract:** 220991  
**Date Issued:** 2018-08-16

Device	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7763DW ISO7763FDW ISO7763QDWQ1 ISO7763FQDWQ1 ISO7760NDW ISO7760FNDW			62368-1:2014 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 5.4.1.4 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			

Suffix R (R may be placed before Q1) is optional and used for reel shipping packing type.

Notes:

1. These devices meet basic insulation requirements for 800Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 400Vrms 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. These devices meet basic insulation requirements for 800Vrms for CSA 62368-1-14 and IEC 62368-1:2014. (pollution degree 2, material group III)
4. These devices meet reinforced insulation requirements for 400Vrms including for CSA 62368-1-14 and IEC 62368-1:2014. (pollution degree 2, material group III)
5. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> 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.
6. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> 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.
7. 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.
8. Case material CTI=600V, erosion depth 0.012mm. (meets material group I)
9. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
10. 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.



**Certificate:** 70178780

**Project:** 70178780

**Master Contract:** 220991

**Date Issued:** 2018-08-16

### **APPLICABLE REQUIREMENTS**

- CAN/CSA-C22.2 No 14-18 - 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)
- CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements
- IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
- IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety 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 (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:** 70178780

**Master Contract:** 220991 (220991)

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70178780	2018-08-16	ISO776xDW



# Certificate of Compliance

**Certificate:** 70128707

**Master Contract:** 220991

**Project:** 70220408

**Date Issued:** 2019-08-09

**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 ▲*

*Martin Buchanan*  
Martin Buchanan, P. Eng.



**Issued by:**

## **PRODUCTS**

CLASS - C907330 - ELECTRONIC COMPONENTS Optoisolators

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:



**Certificate:** 70128707  
**Project:** 70220408

**Master Contract:** 220991  
**Date Issued:** 2019-08-09

Device (DBQ 16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7730DBQ ISO7730FDBQ ISO7730QDBQQ1 ISO7730FQDBQQ1 ISO7731DBQ ISO7731FDBQ ISO7731QDBQQ1 ISO7731FQDBQQ1 ISO7740DBQ ISO7740FDBQ ISO7740QDBQQ1 ISO7740FQDBQQ1 ISO7741DBQ ISO7741FDBQ ISO7741QDBQQ1 ISO7741FQDBQQ1 ISO7742DBQ ISO7742FDBQ ISO7742QDBQQ1 ISO7742FQDBQQ1	3.0	125	CSA 14-18 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2  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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2	-	-	3.7

Suffix R (R may be placed before Q1) is optional and used for reel shipping packing type. Suffix S may be inserted before D for matte tin lead finish.

**Notes:**

1. These devices meet basic insulation requirements for 370Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 148Vrms 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. These devices meet basic insulation requirements for 300V (including 230/400V and 277/480V but not exceeding 370V) for CSA 62368-1-14 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
4. Case material CTI=600V, erosion depth 0.012mm. (meets material group I)
5. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
6. 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.



**Certificate:** 70128707  
**Project:** 70220408

**Master Contract:** 220991  
**Date Issued:** 2019-08-09

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**APPLICABLE REQUIREMENTS**

- |                                       |  |
|---------------------------------------|--|
| CAN/CSA-C22.2 No 14-18                | - 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) |
| CAN/CSA-C22.2 No. 62368-1-14          | - Audio/video, information and communication technology equipment– Part 1: Safety requirements                     |
| IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2 | - Information Technology Equipment - Safety - Part 1: General Requirements   |
| IEC 62368-1:2014 Ed. 2                | - Audio/video, information and communication technology equipment– Part 1: Safety requirements                     |



## *Supplement to Certificate of Compliance*

**Certificate:** 70128707

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220408	2019-08-09	Update for addition of suffix S
000070128707	2017-09-25	Original Component Acceptance





# Certificate of Compliance

**Certificate:** 70178781

**Master Contract:** 220991 (220991)

**Project:** 70178781

**Date Issued:** 2018-08-21

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
(SSOP 16 DBQ-16) ISO7760DBQ ISO7760FDBQ ISO7760QDBQQ1 ISO7760FQDBQQ1 ISO7761DBQ ISO7761FDBQ ISO7761QDBQQ1 ISO7761FQDWQ1 ISO7762DBQ ISO7762FDBQ ISO7762QDBQQ1 ISO7762FQDBQQ1	3.0	125	CSA 14-18 Tbl 35, 6.2.1, 6.2.1/6.2.12, 6.8.1, 6.21.4.1 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 5.4.1.4 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  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 62368-1:2014 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 5.4.1.4	-	-	3.7



**Certificate:** 70178781

**Master Contract:** 220991

**Project:** 70178781

**Date Issued:** 2018-08-21

Device	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7763DBQ ISO7763FDBQ ISO7763QDBQQ1 ISO7763FQDBQQ1			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			

Suffix R (R may be placed before Q1) is optional and used for reel shipping packing type.

**Notes:**

1. These devices meet basic insulation requirements for 370Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 185Vrms 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. These devices meet basic insulation requirements for 370Vrms for CSA 62368-1-14 and IEC 62368-1:2014. (pollution degree 2, material group III)
4. These devices meet reinforced insulation requirements for 185Vrms including for CSA 62368-1-14 and IEC 62368-1:2014. (pollution degree 2, material group III)
5. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed. for 300Vrms, overvoltage category III 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.
6. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed these devices meet 150Vrms, 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.
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 60950-1-07+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements (Bi-national Standard, with UL 60950-1)



**Certificate:** 70178781

**Master Contract:** 220991

**Project:** 70178781

**Date Issued:** 2018-08-21

- 
- CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements
- IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
- IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety 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 (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



## *Supplement to Certificate of Compliance*

**Certificate:** 70178781

**Master Contract:** 220991 (220991)

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70178781	2018-08-21	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70128703

**Master Contract:** 220991

**Project:** 70220410

**Date Issued:** 2019-08-09

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

**Attention:** Saleem Marwat



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

## **PRODUCTS**

CLASS - C907330 - ELECTRONIC COMPONENTS Optoisolators

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:



**Certificate:** 70128703  
**Project:** 70220410

**Master Contract:** 220991  
**Date Issued:** 2019-08-09

Device (SOIC 8 N D-8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7710D ISO7710FD ISO7710QDQ1 ISO7710FQDQ1 ISO7720D ISO7720FD ISO7720QDQ1 ISO7720FQDQ1 ISO7721D ISO7721FD ISO7721QDQ1 ISO7721FQDQ1	3.0	125	CSA 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2  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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2	-	-	4.0

Suffix R (R may be placed before Q1) is optional and used for reel shipping packing type. Suffix S may be inserted before D for matte tin lead finish.

**Notes:**

1. These devices meet basic insulation requirements for 400Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 148Vrms 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. These devices meet basic insulation requirements for 300V (including 230/400V and 277/480V but not exceeding 400V) for CSA 62368-1-14 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
4. Case material CTI=600V, erosion depth 0.012mm. (meets material group I)
5. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
6. 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 60950-1-07+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements (Bi-national Standard, with UL 60950-1)
- CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements



**Certificate:** 70128703  
**Project:** 70220410

**Master Contract:** 220991  
**Date Issued:** 2019-08-09

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IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology  
equipment– Part 1: Safety requirements



## *Supplement to Certificate of Compliance*

**Certificate:** 70128703

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220410	2019-08-09	Update for addition of suffix S
000070128703	2017-09-25	Original Component Acceptance





# Certificate of Compliance

**Certificate:** 70178779

**Master Contract:** 220991 (220991)

**Project:** 70178779

**Date Issued:** 2018-07-13

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
(SOIC 8W DWV-8) ISO7710DWV ISO7710FDWV ISO7710QDWVQ1 ISO7710FQDWVQ1 ISO7720DWV ISO7720FDWV ISO7720QDWVQ1 ISO7720FQDWVQ1 ISO7721DWV ISO7721FDWV ISO7721QDWVQ1 ISO7721FQDWVQ1	5.0	125	CSA 14-18 Tbl 35, 6.2.1, 6.2.1/6.2.12, 6.8.1, 6.21.4.1 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 5.4.1.4 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	-	-	8.5



**Certificate:** 70178779  
**Project:** 70178779

**Master Contract:** 220991  
**Date Issued:** 2018-07-13

Device	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			62368-1:2014 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 5.4.1.4 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			

Suffix B may be used before DWV. Suffix R (R may be placed before Q1) is optional and used for reel shipping packing type.

**Notes:**

1. These devices meet basic insulation requirements for 850Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 425Vrms 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. These devices meet basic insulation requirements for 850Vrms for CSA 62368-1-14 and IEC 62368-1:2014. (pollution degree 2, material group III)
4. These devices meet reinforced insulation requirements for 425Vrms including for CSA 62368-1-14 and IEC 62368-1:2014. (pollution degree 2, material group III)
5. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> 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.
6. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> 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.
7. 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.
8. Case material CTI=600V, erosion depth 0.012mm. (meets material group I)
9. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
10. 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.



**Certificate:** 70178779

**Project:** 70178779

**Master Contract:** 220991

**Date Issued:** 2018-07-13

### **APPLICABLE REQUIREMENTS**

- CAN/CSA-C22.2 No 14-18 - 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)
- CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements
- IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
- IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety 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 (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:** 70178779

**Master Contract:** 220991 (220991)

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70178779	2018-07-13	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70082134 **Master Contract:** 220991 (220991)

**Project:** 70082134 **Date Issued:** 2016-10-27

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA  
 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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
(SOIC 16W DW-16) ISO7820LLDW ISO7821LLDW ISO7821LLSDW	5.7	125	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 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
(DWW-16) ISO7820LLDWW ISO7821LLDWW ISO7821LLSDWW						14.5

Suffix R is optional and used for reel shipping packing type.



**Certificate:** 70082134  
**Project:** 70082134

**Master Contract:** 220991  
**Date Issued:** 2016-10-27

Notes:

1. These devices meet basic insulation requirements for 800Vrms with the DW package and for 1450Vrms with the DWW package for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 400Vrms with the DW package and for 725Vrms with the DWW package 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 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 250Vrms for DW packages and for 400V for DWW packages, 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 CTI=600V, erosion depth 0.012mm. (meets material group I)
5. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
6. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , 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**

- 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 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:** 70082134

**Master Contract:** 220991 (220991)

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70082134	2016-10-27	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70054440

**Master Contract:** 220991 (220991)

**Project:** 70054440

**Date Issued:** 2016-11-22

**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
(SOIC 16W DW-16) ISO5851DW ISO5851QDWQ1 ISO5852SDW ISO5852SQDWQ1 ISO5451DW ISO5451QDWQ1 ISO5452DW ISO5452QDWQ1	5.7	125	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	-	-	8.0





**Certificate:** 70054440

**Master Contract:** 220991

**Project:** 70054440

**Date Issued:** 2016-11-22

			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			
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Suffix R (R may be placed before Q1) is optional and used for reel shipping packing type.

Notes:

1. These devices meet basic insulation requirements for 800Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 400Vrms 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 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.
5. Case material CTI=600V, erosion depth 0.012mm. (meets 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  $\leq$  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**

- 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 (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



**Certificate:** 70054440

**Project:** 70054440

**Master Contract:** 220991

**Date Issued:** 2016-11-22

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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:** 70054440

**Master Contract:** 220991 (220991)

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70054440	2016-11-22	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 2031072 **Master Contract:** 220991 (220991)  
**Project:** 70094782 **Date Issued:** 2018-02-15  
**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA  
 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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Standard/Notice and Clauses	Internal		External
	(V)	°C		Creepage (mm)	Dist Thru (mm)	Creepage (mm)
ISO1176 ISO3080 ISO3086 ISO3082 ISO3088	4000V <sub>peak</sub>	125	CSA 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 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 62368-1:2014 Ed. 2 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2	-	-	8.0
ISO15 ISO35	2.5kV <sub>rms</sub>	125	CSA	-	-	8.0



**Certificate:** 2031072  
**Project:** 70094782

**Master Contract:** 220991  
**Date Issued:** 2018-02-15

ISO15M ISO35M			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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 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 62368-1:2014 Ed. 2 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2			
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followed by D, followed by W and optional R for reel packaging.

**Notes:**

1. Basic insulation requirements have been met for 477Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed. +A1+A2. (pollution degree 2, material group III)
2. Basic Insulation requirements have been met for 300Vrms including 230/400Vrms and 277/480Vrms for CSA 62368-1-14 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III).
3. Reinforced insulation requirements have been met for 148Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed. +A1+A2. (pollution degree 2, material group III)
4. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
5. 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 14-13 - 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)
- CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements
- IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
- IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety requirements



## *Supplement to Certificate of Compliance*

**Certificate:** 2031072

**Master Contract:** 220991 (220991)

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70094782	2018-02-15	Addition of EME-G700-FGT moulding compound.
70060416	2016-02-26	Change of lead frame
2454148	2011-12-29	Addition of ISO15, ISO35, ISO15M, ISO35M
2031072	2008-07-14	Original Component Acceptance.



# Certificate of Compliance

**Certificate:** 2454146

**Master Contract:** 220991

**Project:** 2454146

**Date Issued:** January 17, 2012

**Issued to:** Texas Instruments, Inc.

12500 TI Blvd  
MS 8701  
Dallas, TX 75243  
USA  
Attention: Saleem Marwat

*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 SOIC Surface-Mount Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Stds/Notices	External		
	(kV)	(C)		Internal Creep(mm)	DistThru(mm)	Creep/Clear(mm)
ISO3086TDW	3.0	85	CSA CA5A	-	-	7.6
ISO1176TDW			14-10			
ISO35TDW			60950-1-07 61010-1-04 IEC 60950-1 2nd Ed., IEC61010-1 2nd Ed.,			

Suffixes may be used for different shipping package types.



**Certificate:** 2454146

**Master Contract:** 220991

**Project:** 2454146

**Date Issued:** January 17, 2012

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Notes:

1. Devices meet CSA 14-10 for 750V rated products when pcb mounted.
2. Reinforced insulation requirements have been met for 150Vrms for, CSA 61010-1-04 and IEC 61010-1 2nd Ed.
3. Basic insulation requirements have been met for 760Vrms for CSA 60950-1-07, IEC 60950-1 2nd Ed., and for 600Vrms for CSA 61010-1-04 and IEC 61010-1 2nd Ed.
4. Evaluated by thermal cycling and other tests for a temperature rating of 85C.
5. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , in pollution degree 2 and overvoltage category II for 60950-1.

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 14-10 - 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 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control  
and Laboratory Use - Part 1: General Requirements

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

IEC 61010-1 2nd Ed. 2001 02 - Safety Requirements for Electrical Equipment for Measurement, Control  
and Laboratory Use - Part 1: General Requirements





## *Supplement to Certificate of Compliance*

**Certificate:** 2454146

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
2454146	January 17, 2012	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 2454144

**Master Contract:** 220991

**Project:** 70220411

**Date Issued:** 2019-09-30

**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  
 Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Standard/Notice and Clauses	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO1050DUB	2.5	105	CSA 14-18 tb35, 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 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  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	-	-	7.0



**Certificate:** 2454144  
**Project:** 70220411

**Master Contract:** 220991  
**Date Issued:** 2019-09-30

Device	Ratings		Standard/Notice and Clauses	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			62368-1:2014 Ed. 2 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 61010-1 3 <sup>rd</sup> 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  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 62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2			
ISO1050LDW	2.5	105	CSA 14-18 tb35, 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 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  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 62368-1:2014 Ed. 2 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 61010-1 3 <sup>rd</sup> 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  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 62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2	-	-	7.6
ISO1050DW	5.0	105	CSA 14-18 tb35, 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 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			7.6



**Certificate:** 2454144  
**Project:** 70220411

**Master Contract:** 220991  
**Date Issued:** 2019-09-30

Device	Ratings		Standard/Notice and Clauses	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 62368-1:2014 Ed. 2 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 61010-1 3 <sup>rd</sup> 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 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 62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2			

Suffixes may be used to differentiate shipping package types.

Notes:

1. ISO1050DUB and ISO1050LDW meet CSA 14-18 for 750V rated products when pcb mounted and ISO1050DW meets CSA 14-18 for 1000V rated products when pcb mounted.
2. ISO1050DW meets CSA 60950-1-07+A1+A2, CSA 62368-1-14, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, IEC 62368-1:2014 and EN60950-1:2006+A1+A12+A2 and EN62368-1:2014/A11:2017 for products with working voltages up to 380V for reinforced insulation. (pollution degree 2, material group III)
3. ISO1050DW and ISO1050DUB meet CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed. for products with working voltages up to 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. (pollution degree 2, material group III)
4. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 225Vrms, the ISO1050DW meets 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.
5. ISO1050DUB and ISO1050LDW meet CSA 60950-1-07+A1+A2, CSA 62368-1-14. IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, IEC 62368-1:2014 and EN60950-1:2006+A1+A12+A2 and EN62368-1:2014/A11:2017 for products with working voltages up to 148Vrms for reinforced insulation. (pollution degree 2, material group III)
6. ISO1050DUB and ISO1050LDW meet basic insulation requirements for 700Vrms and 760Vrms respectively for CSA 60950-1-07+A1+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 and EN60950-1:2006+A1+A12+A2.
7. ISO1050DUB and ISO1050LDW meet basic insulation requirements for 600Vrms for CSA 62368-1-14, IEC 62368-1:2014 and EN62368-1:2014/A11:2017.
8. ISO1050DW and ISO1050DUB meet CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed. for products with working voltages up to 600V for basic insulation. (pollution degree 2, material group III)
9. Evaluated by thermal cycling and other tests.
10. The creepage and clearance has been evaluated for altitudes ≤ 2000m, in pollution degree 2, material group



**Certificate:** 2454144  
**Project:** 70220411

**Master Contract:** 220991  
**Date Issued:** 2019-09-30

III, and overvoltage category II

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 60950-1-07+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements (Bi-national Standard, with UL 60950-1)  
CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements  
IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety requirements  
EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
EN 62368-1:2014/A11:2017 - Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified)
- 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



## *Supplement to Certificate of Compliance*

**Certificate:** 2454144

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220411	2019-09-30	Update for addition of CEL8240HF-10GK compound, change of creepage to 7.0mm from 7.3mm, inclusion of 62368-1
0002558731	2012-09-06	Correction to 61010-1 working voltage 380 to 300V
0002454144	2011-12-06	original Component Acceptance



# Certificate of Compliance

**Certificate:** 2540674 **Master Contract:** 220991 (220991)  
**Project:** 70128864 **Date Issued:** 2017-08-16  
**Issued to:** Texas Instruments, Inc.  
 12500 TI Blvd  
 MS 8701  
 Dallas, Texas 75243  
 USA  
 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

Component Acceptance of SOIC Surface-Mount Optoisolator-Like Capacitive Coupling Devices:

Device (SOIC8N package)	Ratings		Standard/Notice and Clauses	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO1540D ISO1541D ISO1540QDQ1 ISO1541QDQ1	2.5	125	CSA 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2  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 62368-1:2014 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2	-	-	4.0

Suffixes may be used for different shipping package types.

### Notes:

1. Devices meet CSA 14-13 for 500V rated products when pcb mounted.



**Certificate:** 2540674  
**Project:** 70128864

**Master Contract:** 220991  
**Date Issued:** 2017-08-16

2. Basic insulation requirements have been met for 400Vrms for CSA 60950-1-07+A1+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2.
3. These devices meet basic insulation requirements for 300Vrms for CSA 62368-1-14 and IEC 62368-1:2014. (pollution degree 2, material group III)
4. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
5. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , in pollution degree 2 and overvoltage category II for 60950-1, 62368-1.

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)

CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment- Part 1: Safety requirements

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

IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment- Part 1: Safety requirements





## *Supplement to Certificate of Compliance*

**Certificate:** 2540674

**Master Contract:** 220991 (220991)

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70128864	2017-08-16	Addition of automotive devices with Q and Q1 suffixes.
70060390	2016-02-26	Change of lead frame
2540674	2012-09-10	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 2559124

**Master Contract:** 220991

**Project:** 2559124

**Date Issued:** September 26, 2012

**Issued to:** Texas Instruments, Inc.  
12500 TI Blvd  
MS 8701  
Dallas, TX 75243  
USA  
Attention: Saleem Marwat

*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 SOIC Surface-Mount Optoisolator-Like Capacitive Coupling Devices:

Device	Ratings		Stds/Notices	Internal		External
	(kVpeak)	(C)		Creep(mm)	DistThru(mm)	Creep/Clear(mm)
ISO5500DW	6.0	125	CSA CA5A	-	-	7.6
			14-10			
			60950-1-07			
			61010-1-04			
			IEC60950-1 2nd Ed.			
			IEC61010-1 2nd Ed.			

Suffixes may be used for different shipping package types.



**Certificate:** 2559124

**Master Contract:** 220991

**Project:** 2559124

**Date Issued:** September 26, 2012

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Notes:

1. Devices meet CSA 14-10 for 1000V rated products when pcb mounted.
2. Reinforced insulation requirements have been met for 380Vrms for CSA 60950-1-07 and IEC 60950-1 2nd Ed. and 300V for CSA 61010-1-04 and IEC 61010-1 2nd Ed.
3. Basic insulation requirements have been met for 760Vrms for CSA 60950-1-07 and IEC 60950-1 2nd Ed. and 600V for CSA 61010-1-04 and IEC 61010-1 2nd Ed.
4. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
5. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , in pollution degree 2 and overvoltage category II for 60950-1.

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 14-10 - 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 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements

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

IEC 61010-1 2nd Ed. 2001 02 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements



## *Supplement to Certificate of Compliance*

**Certificate:** 2559124

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
2559124	September 26, 2012	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70128423

**Master Contract:** 220991

**Project:** 70220409

**Date Issued:** 2019-08-09

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

**Attention:** Saleem Marwat



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

**PRODUCTS**

CLASS - C907330 - ELECTRONIC COMPONENTS Optoisolators

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device (SOIC 8 N D-8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO1211D	3.0	125	CSA 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2  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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2	-	-	4.0



**Certificate:** 70128423  
**Project:** 70220409

**Master Contract:** 220991  
**Date Issued:** 2019-08-09

Suffix R may be used after D for reel packaging. Suffix S may be inserted before D for matte tin lead finish.

Notes:

1. These devices meet basic insulation requirements for 400Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 148Vrms 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. These devices meet basic insulation requirements for 300V (including 230/400V and 277/480V but not exceeding 400V) for CSA 62368-1-14 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
4. Case material CTI=600V, erosion depth 0.012mm. (meets material group I)
5. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
6. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , 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 14-13                | - 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) |
| CAN/CSA-C22.2 No. 62368-1-14          | - Audio/video, information and communication technology equipment– Part 1: Safety requirements                     |
| IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2 | - Information Technology Equipment - Safety - Part 1: General Requirements   |
| IEC 62368-1:2014 Ed. 2                | - Audio/video, information and communication technology equipment– Part 1: Safety requirements                     |



## *Supplement to Certificate of Compliance*

**Certificate:** 70128423

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220409	2019-08-09	Update for addition of suffix S
000070128423	2017-09-25	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70128425

**Master Contract:** 220991

**Project:** 70220407

**Date Issued:** 2019-08-09

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device (DBQ 16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO1212DBQ	3.0	125	CSA 14-18 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2	-	-	3.7





**Certificate:** 70128425  
**Project:** 70220407

**Master Contract:** 220991  
**Date Issued:** 2019-08-09

Device (DBQ 16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2			

Suffix R may be used after DBQ for reel packaging. Suffix S may be inserted before D for matte tin lead finish.

**Notes:**

1. These devices meet basic insulation requirements for 370Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 148Vrms 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. These devices meet basic insulation requirements for 300V (including 230/400V and 277/480V but not exceeding 370V) for CSA 62368-1-14 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
4. Case material CTI=600V, erosion depth 0.012mm. (meets material group I)
5. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
6. 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 60950-1-07+A1+A2     | - Information Technology Equipment - Safety - Part 1: General Requirements (Bi-national Standard, with UL 60950-1) |
| CAN/CSA-C22.2 No. 62368-1-14          | - Audio/video, information and communication technology equipment– Part 1: Safety requirements                     |
| IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2 | - Information Technology Equipment - Safety - Part 1: General Requirements   |
| IEC 62368-1:2014 Ed. 2                | - Audio/video, information and communication technology equipment– Part 1: Safety requirements                     |



## *Supplement to Certificate of Compliance*

**Certificate:** 70128425

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220407	2019-08-09	Update for addition of suffix S
000070128425	2017-09-25	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70220401

**Master Contract:** 220991

**Project:** 70220401

**Date Issued:** 2019-10-04

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device (SOIC 16W DW-16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO1410DW ISO1410BDW ISO1412DW ISO1412BDW ISO1430DW ISO1430BDW ISO1432DW ISO1432BDW ISO1450DW ISO1450BDW	5.0	125	CSA 14-18 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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	-	-	8.0



**Certificate:** 70220401  
**Project:** 70220401

**Master Contract:** 220991  
**Date Issued:** 2019-10-04

Device (SOIC 16W DW-16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO1452DW ISO1452BDW			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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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  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 62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2			

Suffix R may be used after DW for reel packaging.

Notes:

1. The devices meet basic insulation requirements for 800Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
2. The devices meet reinforced insulation requirements for 400Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
3. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed.+A1 the devices meet 600Vrms for basic insulation and 300Vrms 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. (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.
5. Case material CTI=600V, erosion depth 0.012mm. (meets 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, material group III and overvoltage category II except where specified above.

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.



**Certificate:** 70220401  
**Project:** 70220401

**Master Contract:** 220991  
**Date Issued:** 2019-10-04

## **APPLICABLE REQUIREMENTS**

- CAN/CSA-C22.2 No 14-18 - 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)  
CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements  
IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety requirements  
EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
EN 62368-1:2014/A11:2017 - Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified)
- 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))
- and  
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



## *Supplement to Certificate of Compliance*

**Certificate:** 70220401

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220401	2019-10-04	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70220400

**Master Contract:** 220991

**Project:** 70220400

**Date Issued:** 2019-09-25

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device (SOIC 16W DW-16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO1042BDW ISO1042DW ISO1042BQDWQ1 ISO1042QDWQ1	5.0	125	CSA 14-18 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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	-	-	8.0



**Certificate:** 70220400  
**Project:** 70220400

**Master Contract:** 220991  
**Date Issued:** 2019-09-25

Device (SOIC 16W DW-16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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  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 62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2			

Suffix R may be used after DW for reel packaging.

Notes:

1. The ISO1042BDW, ISO1042BQDWQ1, ISO1042DW and ISO1042QDWQ1 devices meet basic insulation requirements for 800Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
2. The ISO1042DW and ISO1042QDWQ1 devices meet reinforced insulation requirements for 400Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
3. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed.+A1 the ISO1042BDW, ISO1042BQDWQ1, ISO1042DW and ISO1042QDWQ1 devices meet 600Vrms for basic insulation and the ISO1042DW and ISO1042QDWQ1 devices 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. (pollution degree 2, material group III)
4. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 250Vrms, the ISO1042DW and ISO1042QDWQ1 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.
5. Case material CTI=600V, erosion depth 0.012mm. (meets 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, material group III and overvoltage category II except where specified above.

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.





**Certificate:** 70220400  
**Project:** 70220400

**Master Contract:** 220991  
**Date Issued:** 2019-09-25

### **APPLICABLE REQUIREMENTS**

- CAN/CSA-C22.2 No 14-18 - 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)  
CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements  
IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety requirements  
EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
EN 62368-1:2014/A11:2017 - Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified)
- 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))
- and  
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



## *Supplement to Certificate of Compliance*

**Certificate:** 70220400

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220400	2019-09-25	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70220402

**Master Contract:** 220991

**Project:** 70220402

**Date Issued:** 2019-10-04

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device (SOIC 8W DWV 8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO1042BDWV ISO1042DWV ISO1042BQDWVQ1 ISO1042QDWVQ1	5.0	125	CSA 14-18 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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	-	-	8.5



**Certificate:** 70220402  
**Project:** 70220402

**Master Contract:** 220991  
**Date Issued:** 2019-10-04

Device (SOIC 8W DWV 8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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  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 62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2			

Suffix R may be used after DWV for reel packaging.

Notes:

1. The ISO1042BDWV, ISO1042BQDWVQ1, ISO1042DWV and ISO1042QDWVQ1 devices meet basic insulation requirements for 850Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
2. The ISO1042DWV and ISO1042QDWVQ1 devices meet reinforced insulation requirements for 425Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
3. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed.+A1 the ISO1042BDWV, ISO1042BQDWVQ1, ISO1042DWV and ISO1042QDWVQ1 devices meet 600Vrms for basic insulation and the ISO1042DWV and ISO1042QDWVQ1 devices 300Vrms 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. (pollution degree 2, material group III)
4. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 268Vrms, the ISO1042DWV and ISO1042QDWVQ1 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.
5. Case material CTI=600V, erosion depth 0.012mm. (meets 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, material group III and overvoltage category II except where specified above.

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.



**Certificate:** 70220402  
**Project:** 70220402

**Master Contract:** 220991  
**Date Issued:** 2019-10-04

## **APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No 14-18 - 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)  
CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology  
equipment– Part 1: Safety requirements  
IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology  
equipment– Part 1: Safety requirements  
EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
EN 62368-1:2014/A11:2017 - Audio/video, information and communication technology  
equipment - Part 1: Safety requirements (IEC 62368-1:2014,  
modified)

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))

and

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



## *Supplement to Certificate of Compliance*

**Certificate:** 70220402

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220402	2019-10-04	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70220403

**Master Contract:** 220991

**Project:** 70220403

**Date Issued:** 2019-10-04

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device (SSOP 16 DBQ 16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO1500DBQ	3.0	125	CSA 14-18 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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 IEC	-	-	3.7



**Certificate:** 70220403  
**Project:** 70220403

**Master Contract:** 220991  
**Date Issued:** 2019-10-04

Device (SSOP 16 DBQ 16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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  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 62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2			

Suffix R may be used after DBQ for reel packaging.

Notes:

1. The devices meet basic insulation requirements for 370Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
2. The devices meet reinforced insulation requirements for 185Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
3. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed.+A1 the devices meet 300Vrms for basic insulation and the devices 150Vrms 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. (pollution degree 2, material group III)
4. Case material CTI=600V, erosion depth 0.012mm. (meets material group I)
5. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
6. The creepage and clearance has been evaluated for altitudes ≤ 2000m, in pollution degree 2, material group III and overvoltage category II except where specified above.

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 60950-1-07+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements (Bi-national Standard, with UL 60950-1)
- CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements
- IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements





**Certificate:** 70220403  
**Project:** 70220403

**Master Contract:** 220991  
**Date Issued:** 2019-10-04

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IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety requirements  
EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
EN 62368-1:2014/A11:2017 - Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified)

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))

and  
IEC 61010-1:2010 Ed. 3.1:2017 01 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements



## *Supplement to Certificate of Compliance*

**Certificate:** 70220402

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220403	2019-10-04	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 70220404

**Master Contract:** 220991

**Project:** 70220404

**Date Issued:** 2019-10-18

**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

Component Acceptance of Optoisolator-Like Capacitive Coupling Devices:

Device (QSOP 16 DBQ 16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7041DBQ ISO7041FDBQ	3.0	125	CSA 14-18 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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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 IEC	-	-	3.7



**Certificate:** 70220404  
**Project:** 70220404

**Master Contract:** 220991  
**Date Issued:** 2019-10-18

Device (QSOP 16 DBQ 16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 4.5.8, 5.4.9.1, 4.1.2 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  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 62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2			

Suffix R may be used after DBQ for reel packaging.

**Notes:**

1. The devices meet basic insulation requirements for 370Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
2. The devices meet reinforced insulation requirements for 185Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
3. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed.+A1 the devices meet 300Vrms for basic insulation and 150Vrms 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. (pollution degree 2, material group III)
4. Case material CTI=600V, erosion depth 0.012mm. (meets material group I)
5. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
6. The creepage and clearance has been evaluated for altitudes ≤ 2000m, in pollution degree 2, material group III and overvoltage category II except where specified above.

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 60950-1-07+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements (Bi-national Standard, with UL 60950-1)
- CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements
- IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements



**Certificate:** 70220404  
**Project:** 70220404

**Master Contract:** 220991  
**Date Issued:** 2019-10-18

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IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety requirements  
EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
EN 62368-1:2014/A11:2017 - Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified)

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))

and  
IEC 61010-1:2010 Ed. 3.1:2017 01 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements



## *Supplement to Certificate of Compliance*

**Certificate:** 70220404

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70220404	2019-10-18	Original Component Acceptance



# Certificate of Compliance

**Certificate:** 80061127

**Master Contract:** 220991

**Project:** 80061127

**Date Issued:** 2021-03-03

**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 8 N D-8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO1640BD ISO1641BD ISO1640BQDQ1 ISO1641BQDQ1	3.0	125	CSA 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  IEC	-	-	4.0



**Certificate:** 80061127  
**Project:** 80061127

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

Device (SOIC 8 N D-8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 3 <sup>rd</sup> 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  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 (R may be placed before Q1) is optional and used for reel shipping packing type.

**Notes:**

1. The devices meet basic insulation requirements for 400Vrms and reinforced insulation requirements for 200Vrms for CSA 62368-1:19. IEC 62368-1:2018 Ed. 3 and EN62368-1:2020. (pollution degree 2, material group III)
2. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed. the devices meet 300Vrms for basic insulation and 150V 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)
3. Case material: 600Vrms with erosion depth 0.037mm, material group I.
4. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
5. 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**

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)

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





**Certificate:** 80061127  
**Project:** 80061127

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

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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)



## *Supplement to Certificate of Compliance*

**Certificate:** 80061127

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80061127	2021-03-03	Original Component Acceptance of Models (SOIC8 N package) ISO1640BD ISO1641BD ISO1640BQDQ1 ISO1641BQDQ1



# Certificate of Compliance

**Certificate:** 80061129

**Master Contract:** 220991

**Project:** 80061129

**Date Issued:** 2021-04-20

**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 8W DWV 8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO6720DWV ISO6720FDWV ISO6721DWV ISO6721FDWV ISO6720QDWVQ1 ISO6720FQDWVQ1 ISO6721QDWVQ1 ISO6721FQDWVQ1	5.0	125	CSA 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	-	-	8.5



**Certificate:** 80061129  
**Project:** 80061129

**Master Contract:** 220991  
**Date Issued:** 2021-04-20

Device (SOIC 8W DWV 8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 3 <sup>rd</sup> 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 DWV for reel packaging.

**Notes:**

1. The devices meet basic insulation requirements for 850Vrms and reinforced insulation requirements for 425Vrms for CSA 62368-1:19. IEC 62368-1:2018 Ed. 3 and EN 62368-1:2020. (pollution degree 2, material group III)
2. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> 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)
3. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 268Vrms, 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: 600Vrms with erosion depth 0.012mm, material group I.
5. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
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**

- 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



**Certificate:** 80061129  
**Project:** 80061129

**Master Contract:** 220991  
**Date Issued:** 2021-04-20

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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



## *Supplement to Certificate of Compliance*

**Certificate:** 80061129

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80061129	2021-04-20	Original Component Acceptance of Models (SOIC8 W package) ISO6720DWV ISO6720FDWV ISO6721DWV ISO6721FDWV ISO6720QDWVQ1 ISO6720FQDWVQ1 ISO6721QDWVQ1 ISO6721FQDWVQ1



# Certificate of Compliance

**Certificate:** 80061128

**Master Contract:** 220991

**Project:** 80061128

**Date Issued:** 2021-03-12

**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 8 N D-8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO6720BD ISO6720FBD ISO6721BD ISO6721FBD ISO6720BQDQ1 ISO6720FBQDQ1 ISO6721BQDQ1 ISO6721FBQDQ1	3.0	125	CSA 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	-	-	4.0



**Certificate:** 80061128  
**Project:** 80061128

**Master Contract:** 220991  
**Date Issued:** 2021-03-12

Device (SOIC 8 N D-8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 3 <sup>rd</sup> 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 (R may be placed before Q1) is optional and used for reel shipping packing type.

Notes:

1. The devices meet basic insulation requirements for 400Vrms and reinforced insulation requirements for 200Vrms for CSA 62368-1:19. IEC 62368-1:2018 Ed. 3 and EN62368-1:2020. (pollution degree 2, material group III)
2. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed. the devices meet 300Vrms for basic insulation and 150V 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)
3. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 1 MOPP for 250V, 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: 600Vrms with erosion depth 0.037mm, material group I.
5. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
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**

- 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)





**Certificate:** 80061128  
**Project:** 80061128

**Master Contract:** 220991  
**Date Issued:** 2021-03-12

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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



## *Supplement to Certificate of Compliance*

**Certificate:** 80061128

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80061128	2021-03-12	Original Component Acceptance of Models (SOIC8 N package) ISO6720BD ISO6720FBD ISO6721BD ISO6721FBD ISO6720BQDQ1 ISO6720FBQDQ1 ISO6721BQDQ1 ISO6721FBQDQ1



# Certificate of Compliance

**Certificate:** 80061126

**Master Contract:** 220991

**Project:** 80061126

**Date Issued:** 2021-03-09

**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 8 N D-8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO1044BD	3.0	125	CSA 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  IEC	-	-	4.0



**Certificate:** 80061126  
**Project:** 80061126

**Master Contract:** 220991  
**Date Issued:** 2021-03-09

Device (SOIC 8 N D-8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 3 <sup>rd</sup> 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  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 (R may be placed before Q1) is optional and used for reel shipping packing type.

**Notes:**

1. The devices meet basic insulation requirements for 400Vrms and reinforced insulation requirements for 200Vrms for CSA 62368-1:19. IEC 62368-1:2018 Ed. 3 and EN62368-1:2020. (pollution degree 2, material group III)
2. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed. the devices meet 300Vrms for basic insulation and 150V 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)
3. Case material: 600Vrms with erosion depth 0.012mm, material group I.
4. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
5. 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**

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)

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



**Certificate:** 80061126  
**Project:** 80061126

**Master Contract:** 220991  
**Date Issued:** 2021-03-09

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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)



## *Supplement to Certificate of Compliance*

**Certificate:** 80061126

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80061126	2021-03-09	Original Component Acceptance of Model (SOIC8 N package) ISO1044BD



# Certificate of Compliance

**Certificate:** 80061130

**Master Contract:** 220991

**Project:** 80061130

**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 16 W DW-16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO6731DW ISO6731FDW ISO6740DW ISO6740FDW ISO6741DW ISO6741FDW ISO6742DW ISO6742FDW	5.0	125	CSA 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:** 80061130  
**Project:** 80061130

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

Device (SOIC 16 W DW-16)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO6731QDWQ1 ISO6731FQDWQ1 ISO6740QDWQ1 ISO6740FQDWQ1 ISO6741QDWQ1 ISO6741FQDWQ1 ISO6742QDWQ1 ISO6742FQDWQ1			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 3 <sup>rd</sup> 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 (R may be placed before Q1) is optional and used for reel shipping packing type.

**Notes:**

1. The devices meet basic insulation requirements for 800Vrms and reinforced insulation requirements for 400Vrms for CSA 62368-1:19. IEC 62368-1:2018 Ed. 3 and EN62368-1:2020. (pollution degree 2, material group III)
2. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> 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)
3. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 250V, 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: 600Vrms with erosion depth 0.012mm, material group I.
5. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
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**

- 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





**Certificate:** 80061130  
**Project:** 80061130

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

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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



## *Supplement to Certificate of Compliance*

**Certificate:** 80061130

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80061130	2021-03-30	Original Component Acceptance of Models (SOIC16 W package) ISO6731DW ISO6731FDW ISO6740DW ISO6740FDW ISO6741DW ISO6741FDW ISO6742DW ISO6742FDW ISO6731QDWQ1 ISO6731FQDWQ1 ISO6740QDWQ1 ISO6740FQDWQ1 ISO6741QDWQ1 ISO6741FQDWQ1 ISO6742QDWQ1 ISO6742FQDWQ1



# Certificate of Compliance

**Certificate:** 80061125

**Master Contract:** 220991

**Project:** 80061125

**Date Issued:** 2021-03-12

**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 8 N D-8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISO7021D ISO7021FD	3.0	125	CSA 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  IEC	-	-	4.0



**Certificate:** 80061125  
**Project:** 80061125

**Master Contract:** 220991  
**Date Issued:** 2021-03-12

Device (SOIC 8 N D-8)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 3 <sup>rd</sup> 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  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 (R may be placed before Q1) is optional and used for reel shipping packing type.

**Notes:**

1. The devices meet basic insulation requirements for 400Vrms and reinforced insulation requirements for 200Vrms for CSA 62368-1:19. IEC 62368-1:2018 Ed. 3 and EN62368-1:2020. (pollution degree 2, material group III)
2. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed. the devices meet 300Vrms for basic insulation and 150V 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)
3. Case material: 600Vrms with erosion depth 0.012mm, material group I.
4. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
5. 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**

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)

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



**Certificate:** 80061125  
**Project:** 80061125

**Master Contract:** 220991  
**Date Issued:** 2021-03-12

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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)



## *Supplement to Certificate of Compliance*

**Certificate:** 80061125

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80061125	2021-03-12	Original Component Acceptance of Models (SOIC8 N package) ISO7021D ISO7021FD



# Certificate of Compliance

**Certificate:** 80061133

**Master Contract:** 220991

**Project:** 80061133

**Date Issued:** 2021-04-20

**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 20W DFM20)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISOW7740DFM ISOW7740FDFM ISOW7741DFM ISOW7741FDFM ISOW7742DFM ISOW7742FDFM ISOW7743DFM ISOW7743FDFM ISOW7744DFM	5.0	125	CSA 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:** 80061133  
**Project:** 80061133

**Master Contract:** 220991  
**Date Issued:** 2021-04-20

Device (SOIC 20W DFM20)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISOW7744FDFM			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 3 <sup>rd</sup> 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 DFM for reel packaging.

Notes:

1. The rating for reinforced insulation is 90C and the rating for basic insulation is 125C.
2. The devices meet basic insulation requirements for 800Vrms and reinforced insulation requirements for 400Vrms for CSA 62368-1:19. IEC 62368-1:2018 Ed. 3 and EN 62368-1:2020. (pollution degree 2, material group III)
3. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> 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 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.
5. Case material: 600Vrms with erosion depth 0.012mm, 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**

- 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





**Certificate:** 80061133  
**Project:** 80061133

**Master Contract:** 220991  
**Date Issued:** 2021-04-20

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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



## *Supplement to Certificate of Compliance*

**Certificate:** 80061133

**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80061133	2021-04-20	Original Component Acceptance of Models (DFM20 package) ISOW7740DFM ISOW7740FDFM ISOW7741DFM ISOW7741FDFM ISOW7742DFM ISOW7742FDFM ISOW7743DFM ISOW7743FDFM ISOW7744DFM ISOW7744FDFM



# Certificate of Compliance

**Certificate:** 80061132

**Master Contract:** 220991

**Project:** 80061132

**Date Issued:** 2021-04-20

**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 20W DFM20)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ISOW1412DFM	5.0	125	CSA 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:** 80061132  
**Project:** 80061132

**Master Contract:** 220991  
**Date Issued:** 2021-04-20

Device (SOIC 20W DFM20)	Ratings		Clauses of Standard/Notice	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
			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 3 <sup>rd</sup> 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 DFM for reel packaging.

Notes:

1. The rating for reinforced insulation is 90C and the rating for basic insulation is 125C.
2. The devices meet basic insulation requirements for 800Vrms and reinforced insulation requirements for 400Vrms for CSA 62368-1:19. IEC 62368-1:2018 Ed. 3 and EN 62368-1:2020. (pollution degree 2, material group III)
3. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> 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 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.
5. Case material: 600Vrms with erosion depth 0.012mm, 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**

- 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



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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



## *Supplement to Certificate of Compliance*

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**Master Contract:** 220991

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80061132	2021-04-20	Original Component Acceptance of Model (DFM20 package) ISOW1412DFM

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