



Product Service

CERTIFICATE

No. B 077311 0025 Rev. 01

Holder of Certificate: **Texas Instruments Incorporated**
13570 North Central Expressway, MS 3928
Dallas TX 75243
USA

Certification Mark:



Product: Audio/Video, Information and Communication
technology equipment
Digital Isolator

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 721008900-000

Valid until: 2030-06-26

Date, 2025-06-30

(Glenn McLaughlin)

CERTIFICATE

No. B 077311 0025 Rev. 01

Model(s): ISO1050 Series

Brand Name: TI

Parameters: Rated Input Voltage: 5000 V_{RMS} or 2500 V_{RMS}
Reinforced isolation at a working voltage of 400 V_{RMS}
Basic isolation at a working voltage of 600 V_{RMS}

Models and Accessories:

- The ISO1050 Series are galvanically isolated CAN transceivers.
- The devices have the logic input and output buffers separated by a silicon oxide (SiO₂) insulation barrier that provides galvanic isolation of up to 5000 V_{RMS} for ISO1050DW and 2500 V_{RMS} for ISO1050LDW and ISO1050DUB.

These devices may be followed by suffixes such as:

Suffix	Description
DUB	SOP-8 pin package
DW	SOIC-16 pin package
LDW	SOIC-16 pin package
R	Tape & Reel Packing option

Tested according to: EN IEC 62368-1:2020/A11:2020



America

CERTIFICATE

No. U10 077311 0024 Rev. 01

Holder of Certificate: **Texas Instruments Incorporated**
13570 North Central Expressway, MS 3928
Dallas TX 75243
USA

Certification Mark:



Product: Audio/Video, Information and Communication technology equipment
Digital Isolator

Tested according to: CSA C22.2 No. 62368-1:2019/U1:2021-10
UL 62368-1:2019/R:2021-10
CSA C22.2 No. 60950-1:2007/A2:2014-10
UL 60950-1:2007/R:2019-05

This product was voluntarily tested to the relevant safety requirements referenced on this certificate. It can be marked with the certification mark above. The mark must not be altered in any way. The certificate holder shall not transfer this certificate to third parties. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC 17067. Certification is based on the TÜV SÜD "Testing, Certification, Validation and Verification Regulations (TCVVR)". For Canadian standards TÜV SÜD America Inc. is accredited by the Standards Council of Canada to ISO/IEC 17065.

Test report no.: 721008900-000

Date, 2025-06-30

(Glenn McLaughlin)

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No. U10 077311 0024 Rev. 01

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LDW	SOIC-16 pin package
R	Tape & Reel Packing option



Technical Report No.: 721008900-000

Date: 2025-06-02

Client:	Name:	Texas Instruments Incorporated (#077311)
	Address:	13570 North Central Expressway M/S 3928, Dallas, TX 75243 USA
	Contact person:	Saleem Marwat (marwat@ti.com)
Manufacturer:	Name:	Same as above (#077311)
	Address:	Same as above
	Contact person:	Same as above
[Redacted]	[Redacted]	[Redacted]
	[Redacted]	[Redacted]
	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
	[Redacted]	[Redacted]
	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
	[Redacted]	[Redacted]
	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
	[Redacted]	[Redacted]
	[Redacted]	[Redacted]
Test object:	Product:	Digital Isolator

Model: ISO1050 Series

Trade mark:  **TEXAS INSTRUMENTS**

Test specification: EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013
CAN/CSA C22.2 No. 60950-1/A2:2014
UL 60950-1:2007/R2019-05

EN IEC 62368-1:2020+A11:2020
CSA C22.2 No. 62368-1:2019/U1:2021-10
UL 62368-1:2019/R:2021-10

Purpose of examination: Addition of Factory (#130220)

Test result: ☒ The test results show that the presented product is in compliance with the above listed test specifications.

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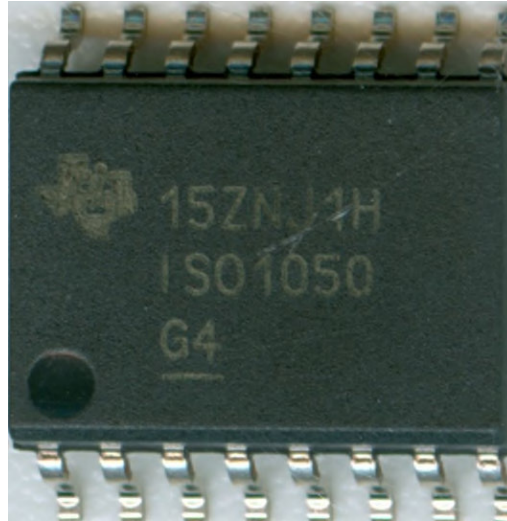
Report No.: 721008900-000
Rev.: 00
Date: 2025-06-02

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1. Description of the test object

1.1 Picture(s)



1.2 Function

The ISO1050 is a galvanically isolated CAN transceiver. The device has the logic input and output buffers separated by a silicon oxide (SiO₂) insulation barrier that provides galvanic isolation of up to 5000 VRMS for ISO1050DW and 2500 VRMS for ISO1050LDW and ISO1050DUB. These devices may be followed by suffixes such as:

DUB – SOP-8 pin package
 DW – SOIC-16 pin package
 LDW – SOIC-16 pin package
 R – Tape & Reel Packing option

These are component level devices intended for building-in. They are not directly connected to mains. The entire package is molded over. This molding does not provide internal distance through insulation so TÜV SÜD America has performed 30 day thermal cycling as required by the applicable standard. The reinforced isolation voltage is 5000VRMS based on a working voltage of 400VRMS (with a DW suffix) or 2500VRMS based on a working voltage of 400VRMS (with a LDW or DUB suffix). The basic isolation voltage is 5000VRMS based on a working voltage of 600VRMS (with a DW suffix) or 2500VRMS based on a working voltage of 600VRMS (with a LDW or DUB suffix). These isolation barrier specifications have been verified by TÜV SÜD America.



Manufacturer's specification for intended use:
According to the User Guide

1.3 Consideration of the foreseeable use

- ☐ Not applicable
- ☒ Covered through the applied standard
- ☐ Covered by the following comment*
- ☐ Covered by attached risk analysis

*

1.4 Technical Data

Model	ISO1050 Series
Rated Voltage (V)	5000V _{RMS} Reinforced Isolation at a working voltage of 400V _{RMS} , 5000V _{RMS} Basic Isolation at a working voltage of 600V _{RMS} ; or 2500V _{RMS} Reinforced Isolation at a working voltage of 400V _{RMS} , 2500V _{RMS} Basic Isolation at a working voltage of 600V _{RMS}
Construction	<input checked="" type="checkbox"/> Stationary <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Hand-held <input type="checkbox"/> Open-frame
Supply connection	<input type="checkbox"/> Non detachable cord <input checked="" type="checkbox"/> Permanent connection to fixed wiring <input type="checkbox"/> Appliance inlet
Operation mode	<input checked="" type="checkbox"/> continuous operation; <input type="checkbox"/> Intermittent operation; <input type="checkbox"/> Short time operation;

2. Order

2.1 Date of Purchase Order, Customer's Reference

2025-03-05 PO# 4516317090

TUV SUD Project #721008900 (Quote #Q-000012983; 12/02/2024)

2.2 Test Sample(s)

- Reception date(s): N/A - no testing required
- Location(s) of reception: N/A - no testing required
- Condition of test sample(s): N/A - no testing required

2.3 Testing

- Testing date(s): N/A - no testing required
- Location(s) of testing: N/A - no testing required

2.4 Points of Non-Compliance or Exceptions of the Test Procedure

- None



3. Test Results

3.1 Positive Test Results

Test specification(s)	Report no. / Rev. No.	Date	Remark
Electrical safety:	721008900-000	2025-06-02	Compliant
Mechanical safety:	721008900-000	2025-06-02	Compliant

3.2 Points of Non-Compliance according to the test specification

☒ None ☐ Yes as follows:

Test specification(s)	Clause	Remark
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4. Test History

Report no. / Rev. No.	Date	History
721008900-000	2025-06-02	Original report. Based on previous report 090-1107157-300, dated 2024-01-08. Addition of Factory (#130220)

5. Remarks

5.1 General

The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.



5.2 Factory surveillance cycle

Your production facility is currently on the following surveillance cycle.

- ☐ Annual (12 month)
- ☒ Bi-Annual (6 month)
- ☐ Quarterly (3 month)
- ☐

5.3 Additional information for routine tests to be performed by the factory(ies)

Routine tests for electrical appliances / equipment:

Routine test requirements for production are described in EN 62911:2018

☒ Required

☐ Not Required

Reason for non-requirement:

☐ Class III product

☐ Other:

Test Details:

☒ Dielectric Strength

Test Points:

BI: Input to output

RI: Input to output

Test Values / Limit(s):

2500 V_{RMS}

Basic isolation at a working voltage of 600V_{RMS}

5000 V_{RMS}

Reinforced isolation at a working voltage of 400 V_{RMS}

6. Documentation

File

Data form (CDF):

File name

721008900-000

Date

2025-06-02


7. Summary

☒ The test specification(s) is (are) met.

☐ The test specification(s) is (are) not met. ☐ In case of full testing further Non-Compliances can be located.

TÜV SÜD America

Tested by:


Jesse Chisholm
Project handler

Approved by:


Charles R. Walker
Reviewer

Form



Data form for critical components and material information

U10 077311 0024 Rev. 01 and B 077311 0025 Rev. 01

Applicant name and address..... :	Texas Instruments Incorporated (#077311) 13570 North Central Expressway M/S 3928, Dallas, TX 75243 USA
Manufacturer name and address . :	Texas Instruments Incorporated (#077311) 13570 North Central Expressway M/S 3928, Dallas, TX 75243 USA
Name and address of factory / factories..... :	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]
Project-No./Report-No. :	721008900-000
Test item description..... :	Digital Isolator
Model/Type reference :	ISO1050 Series may be followed by suffixes such as: DUB – SOP-8 pin package DW – SOIC-16 pin package LDW – SOIC-16 pin package R – Tape & Reel Packing option
Device type :	<input checked="" type="checkbox"/> component / <input type="checkbox"/> sub-assembly / <input type="checkbox"/> equipment / <input type="checkbox"/> system

Ratings :	5000 V _{RMS} or 2500 V _{RMS} Reinforced isolation at a working voltage of 400 V _{RMS} Basic isolation at a working voltage of 600 V _{RMS}

Report-No.: 721008900-000
Project #0721008900, Line 3000 & 4000
Revision / Version: -00
Date: 2025-06-02

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Legal entity: TUV SUD America, Inc.
Address of legal entity: 5945 Cabot Parkway, Suite 100,
Alpharetta, GA 30005 USA
Name of Project Handler: Jesse Chisholm

Form



Product Service

Data form for critical components and material information

U10 077311 0024 Rev. 01 and B 077311 0025 Rev. 01

Connection to electrical supply..... :	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Permanent / <input type="checkbox"/> Detachable cord set / <input type="checkbox"/> Non detachable cord set / <input type="checkbox"/> Direct plug-in / <input type="checkbox"/> Battery operated / <input type="checkbox"/> Others:
Overvoltage category..... :	<input type="checkbox"/> I / <input checked="" type="checkbox"/> II / <input type="checkbox"/> III / <input type="checkbox"/> IV / <input type="checkbox"/> N/A
Pollution degree..... :	<input type="checkbox"/> 1 / <input checked="" type="checkbox"/> 2 / <input type="checkbox"/> 3 / <input type="checkbox"/> 4 / <input type="checkbox"/> N/A
Class of protection..... :	<input type="checkbox"/> Class I (PE connected) <input type="checkbox"/> Class II (isolated) <input type="checkbox"/> Class III <input checked="" type="checkbox"/> Others: <input type="checkbox"/> N/A
Product with functional earthing :	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Environmental conditions / Maximum ambient temperature (°C)..... :	105°C
Equipment mobility / Classification of installation and use..... :	<input type="checkbox"/> transportable / <input type="checkbox"/> portable / <input type="checkbox"/> stationary / <input type="checkbox"/> mobile / <input type="checkbox"/> fixed / <input type="checkbox"/> permanently installed / <input type="checkbox"/> hand-held / <input type="checkbox"/> body-worn / <input checked="" type="checkbox"/> building-in / <input type="checkbox"/> Others:
Operating conditions :	<input checked="" type="checkbox"/> Continuous / <input type="checkbox"/> Short-time / <input type="checkbox"/> Intermittent

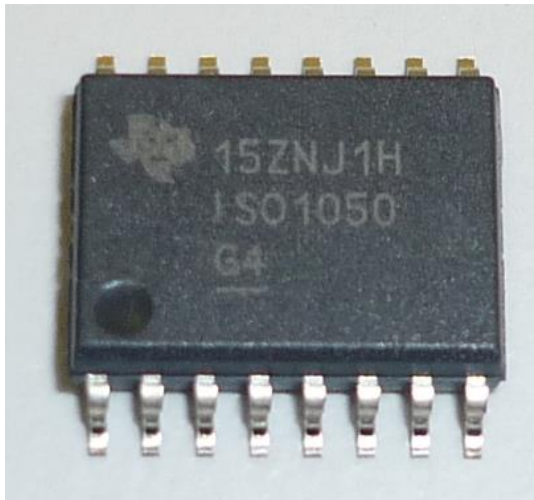
Form



Product Service

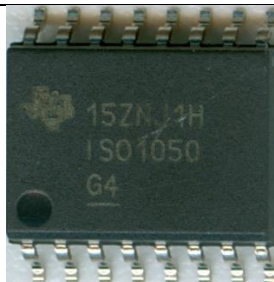
Data form for critical components and material information

U10 077311 0024 Rev. 01 and B 077311 0025 Rev. 01

Overall size of equipment (mm) :	IC 
Mass of equipment (kg)..... :	<0.1kg
Degree of ingress protection (IEC 60529, UL 50 / UL 50 E) :	IPX0
Noise emission [dB(A)]..... :	N/A
Vibration [m/s ²]	N/A
Connection to hydraulic power :	N/A
Connection to pneumatic power... :	N/A
Connection to water installation ... :	N/A
Description of special features :	N/A

Data form for critical components and material information

U10 077311 0024 Rev. 01 and B 077311 0025 Rev. 01

General product information and other remarks:	
Main label / Warning Markings:	
Description of model differences:	See below
General information / Intended use:	<p>Manufacturer's specification for intended use:</p> <p>The ISO1050 is a galvanically isolated CAN transceiver. The device has the logic input and output buffers separated by a silicon oxide (SiO₂) insulation barrier that provides galvanic isolation of up to 5000 V_{RMS} for ISO1050DW and 2500 V_{RMS} for ISO1050LDW and ISO1050DUB. These devices may be followed by suffixes such as:</p> <p>DUB – SOP-8 pin package DW – SOIC-16 pin package LDW – SOIC-16 pin package R – Tape & Reel Packing option</p> <p>These are component level devices intended for building-in. They are not directly connected to mains. The entire package is molded over. This molding does not provide internal distance through insulation so TÜV SÜD America has performed 30 day thermal cycling as required by the applicable standard. The reinforced isolation voltage is 5000V_{RMS} based on a working voltage of 400V_{RMS} (with a DW suffix) or 2500V_{RMS} based on a working voltage of 400V_{RMS} (with a LDW or DUB suffix). The basic isolation voltage is 5000V_{RMS} based on a working voltage of 600V_{RMS} (with a DW suffix) or 2500V_{RMS} based on a working voltage of 600V_{RMS} (with a LDW or DUB suffix). These isolation barrier specifications have been verified by TÜV SÜD America.</p>
Protective earth connection:	N/A

Form



Product Service

Data form for critical components and material information

U10 077311 0024 Rev. 01 and B 077311 0025 Rev. 01

Drawing(s) / Picture(s):



U10 077311 0024 Rev. 01 and B 077311 0025 Rev. 01

Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard <i>No. and Edition year</i>	Mark(s) of conformity and file number
Enclosure:					
[REDACTED]	[REDACTED] [REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED]
[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED]
[REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED]
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	[REDACTED]	[REDACTED]		[REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED]	[REDACTED] [REDACTED]
Supplementary information:					

☐ N/A, ☐ No requirement in standard, ☐ Non certification mark project

Model/Type reference:	Tests performed (name of test and test clause):	Test Details:	Test Points:	Test Values:
All models	Hip-pot	Model dependent (see ratings above)	Input pins to output pins	Model dependent (see ratings above)

Form

Data form for critical components and material information

U10 077311 0024 Rev. 01 and B 077311 0025 Rev. 01




Product Service

Test Report History:

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Signature of the Certification Holder:

Name, seal and signature of Certificate Holder:	Saleem Marwat 
Date:	June 23, 2025

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