

Notification Number:	20200420000	Notification Date:	April 21, 2020
Title:	Datasheet for ISO7720-Q1, ISO7721-Q1		
Customer Contact:	Notification Manager	Dept:	Quality Services

Notification Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.



ISO7720-Q1, ISO7721-Q1

SLLSEU1A – MARCH 2017 – REVISED APRIL 2020

Changes from Original (March 2016) to Revision A	Page
• Made editorial and cosmetic changes throughout the document	1
• Changed From: "Isolation Barrier Life: >40 Years" To: ">100-Year Projected Lifetime at 1.5 kV _{RMS} Working Voltage" in Features	1
• Added "Up to 5000 V _{RMS} Isolation Rating" in Features	1
• Added "Up to 12.8 kV Surge Capability" in Features	1
• Added "±8 kV IEC 61000-4-2 Contact Discharge Protection across Isolation Barrier" in Features	1
• Updated certification-related bullets in Features and changed VDE standard name From: DIN V VDE V 0884-10 (VDE V 0884-10):2006-12 To: DIN VDE V 0884-11:2017-01 throughout the document	1
• Updated Applications list	1
• Updated Simplified Schematic to show two isolation capacitors in series per channel instead of a single isolation capacitor	1
• Added "Contact discharge per IEC 61000-4-2" specification of ±8000 V in ESD Ratings table	5
• Changed 'Signaling' rate to 'Data' rate and added table note to <i>Data rate</i> specification in Recommended Operating Conditions table	5
• Changed V _{IORM} Value for DW-16 package From: "1414 V _{PK} " To: "2121 V _{PK} " in Insulation Specifications table	7
• Changed V _{IOWM} value for DW-16 package From: "1000 V _{RMS} " and "1414 V _{DC} " To: "1500 V _{RMS} " and "2121 V _{DC} " in Insulation Specifications table	7
• Added "see Figure 24 " to TEST CONDITIONS of V _{IOWM} specification	7
• Changed V _{IOTM} TEST CONDITIONS for 100% production test From: "V _{TEST} = V _{IOTM} " To: "V _{TEST} = 1.2 x V _{IOTM} " in Insulation Specifications table	7
• Changed V _{IOSM} TEST CONDITIONS From: "Test method per IEC 60065" To: "Test method per IEC 62368-1" in Insulation Specifications table	7
• Changed q _{pd} TEST CONDITIONS for method b1 test From: "V _{ini} = V _{IOTM} " To: "V _{ini} = 1.2 x V _{IOTM} " in Insulation Specifications table	7
• Changed the climatic category for the D package from 5/125/21 to 55/125/21	7
• Updated certification information in Safety-Related Certifications table	8
• Switched the line colors for V _{CC} at 2.5 V and V _{CC} at 3.3 V in the <i>Low-Level Output Voltage vs Low-Level Output Current</i> graph.....	15
• Deleted EN from the <i>Common-Mode Transient Immunity Test Circuit</i> figure	17
• Corrected ground symbols for "Input (Devices with F suffix)" in Device I/O Schematics	20
• Added Insulation Lifetime sub-section under Application Curve section	24
• Added 'How to use isolation to improve ESD, EFT and Surge immunity in industrial systems' application report to Documentation Support section	27

The datasheet number will be changing.

Device Family	Change From:	Change To:
ISO7720-Q1, ISO7721-Q1	SLLSEU1	SLLSEU1A

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/ISO7720-Q1>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):			
No anticipated impact. This is a specification change announcement only. There are no changes to the actual device.			
Changes to product identification resulting from this notification:			
None.			
Product Affected:			
ISO7720FQDQ1	ISO7720FQDRQ1	ISO7720FQDWQ1	ISO7720FQDWRQ1
ISO7720QDQ1	ISO7720QDRQ1	ISO7720QDWQ1	ISO7720QDWRQ1
ISO7721FQDQ1	ISO7721FQDRQ1	ISO7721FQDWQ1	ISO7721FQDWRQ1
ISO7721QDQ1	ISO7721QDRQ1	ISO7721QDWQ1	ISO7721QDWRQ1

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
WW Change Management Team	PCN_ww_admin_team@list.ti.com

IMPORTANT NOTICE AND DISCLAIMER

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

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property

right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

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