

PCN Number:	20200212002	PCN Date:	Mar. 18, 2020
Title:	Datasheet for ISO7740-Q1, ISO7741-Q1, ISO7742-Q1		
Customer Contact:	PCN Manager	Dept:	Quality Services
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Data Sheet
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process

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.



ISO7740-Q1, ISO7741-Q1, ISO7742-Q1

SLLSEU0C –NOVEMBER 2016–REVISED FEBRUARY 2020

Changes from Revision B (June 2018) to Revision C

Page

• Made editorial and cosmetic changes throughout the document	1
• Changed From: "Isolation Barrier Life: >40 Years" To: ">100-year projected lifetime at 1500 V _{RMS} working voltage" in Features	1
• Added "Up to 5700 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
• Changed VDE standard name From: DIN V VDE V 0884-11:2017-01 To: DIN VDE V 0884-11:2017-01 throughout the document	1
• Updated list of applications in Applications section.....	1
• Updated Simplified Schematic to show two isolation capacitors in series per channel instead of a single isolation capacitor	1
• Added extra-wide SOIC (DWW-16) package information for ISO7741-Q1 in the datasheet	4
• Added "Contact discharge per IEC 61000-4-2" specification of ±8000 V in ESD Ratings	7
• Added the following table note to <i>Data rate</i> specification: "100 Mbps is the maximum specified data rate, although higher data rates are possible."	7
• Changed ISO7741-Q1 P _{D1} or Maximum power dissipation by side-1 From: 50 mW To: 75 mW and P _{D2} or Maximum power dissipation by side-2 From: 150 mW To: 125 mW in Power Rating table.....	8
• Changed V _{IORM} value for DW-16 package From: "1414 V _{PK} " To: "2121 V _{PK} " in Insulation Specifications table	9
• Changed V _{IOWM} values for DW-16 package From: "1000 V _{RMS} " and "1414 V _{DC} " To: "1500 V _{RMS} " and "2121 V _{DC} " in Insulation Specifications table	9
• Added 'see Figure 30 ' to TEST CONDITIONS of V _{IOWM} specification in Insulation Specifications	9
• Changed V _{IOSM} TEST CONDITIONS From: "Test method per IEC 60065" To: "Test method per IEC 62368-1" in Insulation Specifications table	9
• Updated certification information in Safety-Related Certifications table	10
• Corrected ground symbol for 'Input (ISO774xF)' schematic in Device I/O Schematics	27
• Updated Figure 24 by changing CAN transceiver From: SN65HVD231Q To: TCAN1042-Q1 and transformer driver From: SN6501-Q1 To: SN6505x-Q1	28
• Added Insulation Lifetime sub-section under Application Curve section.....	30
• Added SN6505x-Q1 reference in Power Supply Recommendations section	31
• Added 'How to use isolation to improve ESD, EFT, and Surge immunity in industrial systems' application report to Documentation Support section	33
• Added SN6505x-Q1 data sheet reference in Documentation Support section	33

The datasheet number will be changing.

Device Family	Change From:	Change To:
ISO7740-Q1, ISO7741-Q1, ISO7742-Q1	SLLSEU0B	SLLSEU0C

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/ISO7740-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 PCN:

None.

Product Affected:

ISO7740FQDBQQ1	ISO7740FQDBQRQ1	ISO7740FQDWQ1	ISO7740FQDWRQ1
ISO7740QDBQQ1	ISO7740QDBQRQ1	ISO7740QDWQ1	ISO7740QDWRQ1
ISO7741FQDBQQ1	ISO7741FQDBQRQ1	ISO7741FQDWQ1	ISO7741FQDWRQ1
ISO7741FQDWWQ1	ISO7741FQDWRQ1	ISO7741QDBQQ1	ISO7741QDBQRQ1
ISO7741QDWQ1	ISO7741QDWRQ1	ISO7741QDWWQ1	ISO7741QDWRQ1
ISO7742FQDBQQ1	ISO7742FQDBQRQ1	ISO7742FQDWQ1	ISO7742FQDWRQ1
ISO7742QDBQQ1	ISO7742QDBQRQ1	ISO7742QDWQ1	ISO7742QDWRQ1

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