



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

Notification# 20200324008
Datasheet for ISO7740-Q1, ISO7741-Q1, ISO7742-Q1
Information Only

Date: April 15, 2020
To: Newark/Farnell PCN

Dear Customer:

This is an information-only announcement of a change to the datasheet for a device that is currently offered by Texas Instruments.

The changes discussed within this notification are for your information only.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the Change Management team (PCN_ww_admin_team@list.ti.com).

Sincerely,

Change Management Team
SC Business Services

Information Only Attachments

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

| DEVICE | CUSTOMER PART NUMBER |
|----------------|-----------------------------|
| ISO7741FQDBQQ1 | null |

Technical details of this Product Change follow on the next page(s).

| | | | |
|-----------------------------|--|---------------------------|------------------|
| Notification Number: | 20200324008 | Notification Date: | April 15, 2020 |
| Title: | Datasheet for ISO7740-Q1, ISO7741-Q1, ISO7742-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.



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 _{IO_{RM}} value for DW-16 package From: "1414 V _{PK} " To: "2121 V _{PK} " in Insulation Specifications table | 9 |
| • Changed V _{IO_{WM}} 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 _{IO_{WM}} specification in Insulation Specifications | 9 |
| • Changed V _{IO_{SM}} 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 notification:

None.

Product Affected:

| | | | |
|----------------|-----------------|-----------------|----------------|
| ISO7740FQDBQQ1 | ISO7740FQDBQRQ1 | ISO7740FQDWQ1 | ISO7740FQDWRQ1 |
| ISO7740QDBQQ1 | ISO7740QDBQRQ1 | ISO7740QDWQ1 | ISO7740QDWRQ1 |
| ISO7741FQDBQQ1 | ISO7741QDWRQ1 | ISO7741FQDBQRQ1 | ISO7741FQDWQ1 |
| ISO7741FQDWRQ1 | ISO7741FQDWWQ1 | ISO7741FQDWWRQ1 | ISO7741QDBQQ1 |
| ISO7741QDBQRQ1 | ISO7741QDWQ1 | ISO7741QDWWQ1 | ISO7741QDWWRQ1 |
| ISO7742FQDBQQ1 | ISO7742FQDBQRQ1 | ISO7742FQDWQ1 | ISO7742FQDWRQ1 |
| ISO7742QDBQQ1 | ISO7742QDBQRQ1 | ISO7742QDBQRQ1 | ISO7742QDWRQ1 |

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.