



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

Notification# 20241220002.0

**Datasheet for ISO772x, ISO7710-Q1, ISO772x-Q1, ISO7710, ISO774x, ISO773x-Q1,
ISO774x-Q1, and ISO773x**

Information Only

Date: December 23, 2024
To: MOUSER PCN

Dear Customer:

This is an information-only announcement of a change to 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.

Sincerely,

Change Management Team
SC Business Services

20241220002.0
Information Only Datasheet
Attachments

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
ISO7730QDWRQ1	595-ISO7730QDWRQ1
ISO7741FQDWRQ1	ISO7741FQDWRQ1
ISO7741FQDWWVRQ1	NULL
ISO7740FDWR	ISO7740FDWR
ISO7720FDWR	ISO7720FDWR
ISO7710QDWRQ1	ISO7710QDWRQ1
ISO7742FDWR	ISO7742FDWR
ISO7720QDWWVRQ1	NULL
ISO7721FQDWWVRQ1	NULL
ISO7710FDWR	ISO7710FDWR
ISO7740FQDWRQ1	NULL
ISO7721DWVR	ISO7721DWVR
ISO7721FQDWRQ1	NULL
ISO7731QDWRQ1	ISO7731QDWRQ1
ISO7742FQDWRQ1	NULL
ISO7721FQDRQ1	ISO7721FQDRQ1
ISO7721QDRQ1	ISO7721QDRQ1
ISO7741FBDWR	NULL
ISO7741QDWWVRQ1	NULL
ISO7721DR	ISO7721DR
ISO7731FQDWRQ1	ISO7731FQDWRQ1
ISO7710DWR	ISO7710DWR
ISO7720DWR	ISO7720DWR
ISO7730DWR	ISO7730DWR
ISO7740DWR	ISO7740DWR
ISO7731DWR	ISO7731DWR
ISO7741DWR	ISO7741DWR
ISO7741BDWR	NULL
ISO7720QDWRQ1	ISO7720QDWRQ1
ISO7742DWR	ISO7742DWR
ISO7741QDWRQ1	ISO7741QDWRQ1
ISO7721FDWVR	ISO7721FDWVR
ISO7731FDWR	ISO7731FDWR
ISO7710DR	ISO7710DR
ISO7720FDWVR	ISO7720FDWVR
ISO7710FDR	ISO7710FDR
ISO7710QDRQ1	ISO7710QDRQ1
ISO7741FDWR	ISO7741FDWR
ISO7710FQDRQ1	ISO7710FQDRQ1
ISO7721FDR	ISO7721FDR
ISO7721FDWR	ISO7721FDWR
ISO7721FBDWR	ISO7721FBDWR
ISO7720FQDWWVRQ1	NULL
ISO7710FQDWRQ1	NULL
ISO7720DWVR	ISO7720DWVR
ISO7720FQDRQ1	ISO7720FQDRQ1
ISO7742QDWRQ1	NULL

ISO7721BDWR	ISO7721BDWR
ISO7731BDWR	ISO7731BDWR
ISO7720QDRQ1	ISO7720QDRQ1
ISO7720DR	ISO7720DR
ISO7721QDWVRQ1	NULL
ISO7731FBDWR	ISO7731FBDWR
ISO7721QDWRQ1	ISO7721QDWRQ1
ISO7721DWR	NULL

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

PCN Number:	20241220002.0		PCN Date:	December 23, 2024																																		
Title:	Datasheet for ISO772x, ISO7710-Q1, ISO772x-Q1, ISO7710, ISO774x, ISO773x-Q1, ISO774x-Q1, and ISO773x																																					
Customer Contact:	Change Management team	Dept:	Quality Services																																			
Change Type:	Electrical Specification																																					
PCN 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, ISO7721 SLLSEP3G – NOVEMBER 2016 – REVISED MAY 2024																																						
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• Updated Thermal Characteristics, Safety Limiting Values, and Thermal Derating Curves to provide more accurate system-level thermal calculations.....	5
• Updated electrical and switching characteristics to match device performance.....	5
• Updated Climatic category for D package.....	8
• Updated Maximum working voltages for DW-16 and D-8.....	10
• Changed working voltage lifetime margin from: 87.5% to: 50%, minimum required insulation lifetime from: 37.5 years to: 30 years and insulation lifetime per TDDb from: 135 years to: 169 years per DIN EN IEC 60747-17 (VDE 0884-17).....	26
• Changed Figure 9-6 per DIN EN IEC 60747-17 (VDE 0884-17).....	26

Changes from Revision D (March 2023) to Revision E (December 2024)	Page
• Updated the number formatting for tables, figures, and cross-references throughout the document.....	1
• Updated maximum power dissipation in the power ratings section.....	7
• Updated distance through isolation, while maintaining other insulation specifications.....	8
• Updated maximum total current consumption values throughout the supply current characteristics sections.....	11
• Updated maximum propagation delay specifications throughout the switching characteristics sections.....	14
• Updated TDDb plot and the projected lifetime.....	23

Changes from Revision I (January 2024) to Revision J (October 2024)	Page
• Updated the numbering format for tables, figures, and cross-references throughout document.....	2
• Updated distance through isolation, while maintaining other insulation specifications.....	9
• Updated the input leakage current for ENx pins throughout the electrical characteristic sections.....	13
• Updated the TDDb plot and the projected lifetime.....	33

Changes from Revision H (March 2023) to Revision I (January 2024)	Page
• Updated Features list.....	1
• Updated numbering format for tables, figures and cross-references throughout document.....	2
• Updated Thermal Characteristics, Safety Limiting Values, and Thermal Derating Curves to provide more accurate system-level thermal calculations.....	6
• Updated electrical and switching characteristics to match device performance.....	6

Changes from Revision E (August 2023) to Revision F (October 2024)
Page

• Updated numbering format for tables, figures and cross-references throughout document.....	1
• Updated Thermal Characteristics, Safety Limiting Values, and Thermal Derating Curves to provide more accurate system-level thermal calculations.....	6
• Updated electrical and switching characteristics to match device performance.....	6
• Updated maximum power dissipation in the power ratings section.....	8
• Updated distance through isolation, while maintaining all other insulation specifications.....	9
• Updated table entries.....	11
• Updated the input leakage current for ENx pins throughout the electrical characteristic sections.....	13
• Updated maximum total current consumption values throughout the supply current characteristics sections.....	14
• Updated maximum propagation delay specifications throughout the switching characteristics sections.....	19
• Updated the TDDDB plot and the projected lifetime.....	33

Changes from Revision F (January 2024) to Revision G (October 2024)
Page

• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Updated distance through isolation, while maintaining other insulation specifications.....	8
• Updated the input leakage current for ENx pins throughout the electrical characteristic sections.....	12
• Updated the TDDDB plot and the projected lifetime.....	32

Changes from Revision E (July 2023) to Revision F (January 2024)
Page

• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Updated Thermal Characteristics, Safety Limiting Values, and Thermal Derating Curves to provide more accurate system-level thermal calculations.....	5
• Updated electrical and switching characteristics to match device performance.....	5

Changes from Revision I (August 2023) to Revision J (October 2024)
Page

• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Updated distance through isolation, while maintaining other insulation specifications.....	7
• Updated the input leakage current for ENx pins throughout the electrical characteristic sections	11
• Updated the TDDDB plot and the projected lifetime.....	31
• Deleted the <i>Community Resources</i> section and added the <i>Support Resources</i> section.....	34

Changes from Revision H (March 2023) to Revision I (August 2023)
Page

• Updated Thermal Characteristics, Safety Limiting Values, and Thermal Derating Curves to provide more accurate system-level thermal calculations.....	10
• Updated electrical and switching characteristics to match device performance.....	17

The datasheet number will be changing.

Device Family	Change From:	Change To:
ISO772x	SLLSEP3F	SLLSEP3G
ISO7710-Q1	SLLSEU2B	SLLSEU2C
ISO772x-Q1	SLLSEU1B	SLLSEU1C
ISO7710	SLLSER9D	SLLSER9E
ISO774x	SLLSEP4H	SLLSEP4J
ISO773x-Q1	SLLSEU3E	SLLSEU3F
ISO774x-Q1	SLLSEU0E	SLLSEU0G
ISO773x	SLLSES0H	SLLSES0J

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/ISO7720>
<http://www.ti.com/product/ISO7710-Q1>
<http://www.ti.com/product/ISO772x-Q1>
<http://www.ti.com/product/ISO7710>
<http://www.ti.com/product/ISO7740>
<http://www.ti.com/product/ISO7730-Q1>
<http://www.ti.com/product/ISO7740-Q1>
<http://www.ti.com/product/ISO7730>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact.

Changes to product identification resulting from this PCN:

None.

Product Affected:

ISO7731BDWR	ISO7741FQDWWRQ1	ISO7740QDWRQ1	ISO7731FBDWR
ISO7730FDWR	ISO7731FQDWRQ1	ISO7741BDWR	ISO7730QDWRQ1
ISO7740FDWR	ISO7740FQDWRQ1	ISO7741FDWR	ISO7740DWR
ISO7731QDWRQ1	ISO7741FQDWRQ1	ISO7742DWR	ISO7741DWR
ISO7741QDWWRQ1	ISO7742FQDWRQ1	ISO7742QDWRQ1	ISO7741FBDWR
ISO7730DWR	ISO7731FDWR	ISO7731DWR	ISO7742FDWR
ISO7741QDWRQ1	ISO7730FQDWRQ1	ISO7720DWVR	ISO7710DR
ISO7720FQDWRQ1	ISO7720QDWRQ1	ISO7710QDRQ1	ISO7721FBDWR
ISO7720FQDWVRQ1	ISO7721BDWR	ISO7720FDWR	ISO7710QDWRQ1
ISO7721QDRQ1	ISO7721DR	ISO7720FDWVR	ISO7710DWR
ISO7710FDR	ISO7721FDR	ISO7720FQDRQ1	ISO7710FQDWRQ1
ISO7710FDWR	ISO7721FDWR	ISO7721FQDRQ1	ISO7720QDWVRQ1
ISO7710FQDRQ1	ISO7721FQDWRQ1	ISO7721QDWRQ1	ISO7721DWVR
ISO7720DWR	ISO7721FQDWVRQ1	ISO7720DR	ISO7721FDWVR
ISO7720QDRQ1	ISO7721QDWVRQ1	ISO7721DWR	

ZVEI ID: SEM-DS-01, SEM-DS-02

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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