



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20251111000.1

**Qualify MLA as an additional Assembly/Test site for select devices
Change Notification / Sample Request**

Date: November 19, 2025
To: MOUSER PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

Texas Instruments requires acknowledgement of receipt of this notification within 60 days of the date of this notice. Lack of acknowledgement of this notice within 60 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within 60 days of this notification.

The changes discussed within this PCN will not take effect any earlier than the proposed first ship date on Page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the change management team.

For sample requests or sample related questions, contact your local Field Sales Representative.

TI values customer engagement and feedback related to TI changes. Customers should contact TI if there are questions or concerns regarding a change notification.

Sincerely,

Change Management Team
SC Business Services

2025111000.1**Attachment: 1****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 |
|-----------------|-----------------------------|
| PCA9306DCUT | PCA9306DCUT |
| SN74LVC2T45DCUR | SN74LVC2T45DCUR |
| TCA39306DCUR | NULL |
| LSF0102DCUR | LSF0102DCUR |
| SN74TVC3306DCUR | SN74TVC3306DCUR |
| SN74LVC2T45DCUT | SN74LVC2T45DCUT |
| PCA9306DCUR | PCA9306DCUR |

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

| | | | |
|--|--|--|--|
| PCN Number: | 20251111000.1 | PCN Date: | November 19, 2025 |
| Title: | Qualify MLA as an additional Assembly/Test site for select devices | | |
| Customer Contact: | Change Management team | Dept: | Quality Services |
| Proposed 1st Ship Date: | February 17, 2026 | Sample requests accepted until: | January 18, 2026* |
| *Sample requests received after January 18, 2026 will not be supported. | | | |
| Change Type: | | | |
| <input checked="" type="checkbox"/> Assembly Site | <input type="checkbox"/> | Design | <input type="checkbox"/> Wafer Bump Material |
| <input checked="" type="checkbox"/> Assembly Process | <input type="checkbox"/> | Data Sheet | <input type="checkbox"/> Wafer Bump Process |
| <input checked="" type="checkbox"/> Assembly Materials | <input type="checkbox"/> | Part number change | <input type="checkbox"/> Wafer Fab Site |
| <input checked="" type="checkbox"/> Mechanical Specification | <input checked="" type="checkbox"/> | Test Site | <input type="checkbox"/> Wafer Fab Material |
| <input checked="" type="checkbox"/> Packing/Shipping/ Labeling | <input type="checkbox"/> | Test Process | <input type="checkbox"/> Wafer Fab Process |

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of TI Malaysia (MLA) as an additional Assembly/Test site for the list of devices shown below. Material differences between sites are as follows.

Group 2 Device - Assembly Site

| | Current Site | Additional Site |
|------------------------------|------------------------|------------------------------|
| Assembly Site | HFTF | MLA |
| Mount Compound | SID#A-18 CRM-1076NS | 4147858 QMI-505MT |
| Symbolization | Same | Additional |
| Final Wafer Thickness | 152.4um | 190um |

Qual details are provided in the Qual Data Section.

Test coverage, insertions, conditions will remain consistent with current testing.

Reason for Change:

Continuity of supply.

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

None.

Impact on Environmental Ratings

Checked boxes indicate the status of environmental ratings following implementation of this change. If below boxes are checked, there are no changes to the associated environmental ratings.

| RoHS | REACH | Green Status | IEC 62474 |
|---|---|---|---|
| <input checked="" type="checkbox"/> No Change |

Changes to product identification resulting from this PCN:

| Assembly Site | Assembly Site Origin (22L) | Assembly Country Code (23L) | Assembly City |
|--------------------|----------------------------|-----------------------------|---------------------|
| HFTF | HFT | CHN | Hefei |
| TI Malaysia | MLA | MYS | Kuala Lumpur |

Sample product shipping label (not actual product label)



Product Affected:

| | | | |
|--------------|-----------------|-----------------|--|
| LSF0102DCUR | PCA9306DCUT | SN74LVC2T45DCUT | |
| PCA9306DCUR | SN74LVC2T45DCUR | SN74TVC3306DCUR | |
| TCA39306DCUR | | | |

Qualification Report Automotive Qualification Summary (As per AEC-Q100 Rev. H and JEDEC Guidelines)

Approve Date 02-October-2025

Product Attributes

| Attributes | Qual Device: PCA9306TDCURQ1 | Qual Device: SN74LVC2T45QDCURQ1 | QBS Process Reference: SN3257QDYYRQ1 | QBS Process Reference: SN74HCS74QPWRQ1 |
|--------------------------|--|--|---|---|
| Automotive Grade Level | Grade 1 | Grade 1 | Grade 1 | Grade 1 |
| Operating Temp Range (C) | -40 to 125 | -40 to 125 | -40 to 125 | -40 to 125 |
| Product Function | Interface | Interface | Logic, Signal Chain | Logic |
| Wafer Fab Supplier | RFAB | RFAB | RFAB | RFAB |
| Assembly Site | MLA | MLA | PHI | MLA |
| Package Group | VSSOP | VSSOP | SOT | TSSOP |
| Package Designator | DCU | DCU | DYY | PW |
| Pin Count | 8 | 8 | 16 | 14 |

QBS: Qual By Similarity, also known as Generic Data

Qual Device PCA9306TDCURQ1 is qualified at MSL1 260C

Qual Device SN74LVC2T45QDCURQ1 is qualified at MSL1 260C

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

| Type | # | Test Spec | Min Lot Qty | SS / Lot | Test Name | Condition | Duration | Qual Device: PCA9306TDCURQ1 | Qual Device: SN74LVC2T45QDCURQ1 | QBS Process Reference: SN3257QDYYRQ1 | QBS Process Reference: SN74HCS74QPWRQ1 |
|---|----|-------------------------------------|-------------|----------|-------------------------------|-------------|------------|---|---|--|--|
| Test Group A - Accelerated Environment Stress Tests | | | | | | | | | | | |
| PC | A1 | JEDEC J-STD-020 JESD22-A113 | 3 | 77 | Preconditioning | MSL1 260C | - | - | 3/0/0 | 3/0/0 | 3/0/0 |
| HAST | A2 | JEDEC JESD22-A110 | 3 | 77 | Biased HAST | 130C/85%RH | 96 Hours | - | 3/231/0 | 3/231/0 | 3/231/0 |
| AC/UHAST | A3 | JEDEC JESD22-A102/JEDEC JESD22-A118 | 3 | 77 | Autoclave | 121C/15psig | 96 Hours | - | - | 3/231/0 | 3/231/0 |
| AC/UHAST | A3 | JEDEC JESD22-A102/JEDEC JESD22-A118 | 3 | 77 | Unbiased HAST | 130C/85%RH | 96 Hours | - | 3/231/0 | - | - |
| TC | A4 | JEDEC JESD22-A104 and Appendix 3 | 3 | 77 | Temperature Cycle | -65C/150C | 500 Cycles | - | 3/231/0 | 3/231/0 | 3/231/0 |
| HTSL | A6 | JEDEC JESD22-A103 | 1 | 45 | High Temperature Storage Life | 150C | 1000 Hours | - | - | 3/135/0 | 3/135/0 |
| HTSL | A6 | JEDEC JESD22-A103 | 1 | 45 | High Temperature Storage Life | 175C | 500 Hours | - | 3/135/0 | - | - |
| Test Group B - Accelerated Lifetime Simulation Tests | | | | | | | | | | | |
| HTOL | B1 | JEDEC JESD22-A108 | 3 | 77 | Life Test | 125C | 1000 Hours | - | - | - | 3/231/0 |
| HTOL | B1 | JEDEC JESD22-A108 | 3 | 77 | Life Test | 150C | 300 Hours | - | - | 3/231/0 | - |
| ELFR | B2 | AEC Q100-008 | 3 | 800 | Early Life Failure Rate | 125C | 48 Hours | - | - | - | 3/2400/0 |
| ELFR | B2 | AEC Q100-008 | 3 | 800 | Early Life Failure Rate | 150C | 24 Hours | - | - | 3/2400/0 | - |

| Test Group C - Package Assembly Integrity Tests | | | | | | | | | | | |
|--|----|----------------------------|---|----|-------------------------------------|---|------------|---|---|---|---|
| WBS | C1 | AEC Q100-001 | 1 | 30 | Wire Bond Shear | Minimum of 5 devices, 30 wires Cpk>1.67 | Wires | 1/30/0 | 1/30/0 | 3/90/0 | 3/90/0 |
| WBP | C2 | MIL-STD883 Method 2011 | 1 | 30 | Wire Bond Pull | Minimum of 5 devices, 30 wires Cpk>1.67 | Wires | 1/30/0 | 1/30/0 | 3/90/0 | 3/90/0 |
| SD | C3 | JEDEC J-STD-002 | 1 | 15 | PB Solderability | >95% Lead Coverage | - | - | - | 1/15/0 | 1/15/0 |
| SD | C3 | JEDEC J-STD-002 | 1 | 15 | PB-Free Solderability | >95% Lead Coverage | - | - | 1/15/0 | 1/15/0 | 1/15/0 |
| PD | C4 | JEDEC JESD22-B100 and B108 | 3 | 10 | Physical Dimensions | Cpk>1.67 | - | 1/10/0 | 1/10/0 | 3/30/0 | 3/30/0 |
| Test Group D - Die Fabrication Reliability Tests | | | | | | | | | | | |
| EM | D1 | JESD61 | - | - | Electromigration | - | - | Completed Per Process Technology Requirements |
| TDDB | D2 | JESD035 | - | - | Time Dependent Dielectric Breakdown | - | - | Completed Per Process Technology Requirements |
| HCI | D3 | JESD60 & 28 | - | - | Hot Carrier Injection | - | - | Completed Per Process Technology Requirements |
| BTI | D4 | - | - | - | Bias Temperature Instability | - | - | Completed Per Process Technology Requirements |
| SM | D5 | - | - | - | Stress Migration | - | - | Completed Per Process Technology Requirements |
| Test Group E - Electrical Verification Tests | | | | | | | | | | | |
| ESD | E2 | AEC Q100-002 | 1 | 3 | ESD HBM | - | 2000 Volts | 1/3/0 | 1/3/0 | 1/3/0 | 1/3/0 |
| ESD | E3 | AEC Q100-011 | 1 | 3 | ESD CDM | - | 1500 Volts | 1/3/0 | 1/3/0 | 1/3/0 | 1/3/0 |
| ESD | E3 | AEC Q100-011 | 1 | 3 | ESD CDM | - | 500 Volts | 1/3/0 | 1/3/0 | - | 1/3/0 |
| LU | E4 | AEC Q100-004 | 1 | 3 | Latch-Up | Per AEC Q100-004 | - | 1/3/0 | 1/3/0 | 1/6/0 | 1/6/0 |
| ED | E5 | AEC Q100-009 | 3 | 30 | Electrical Distributions | Cpk>1.67 Room, hot, and cold | - | 3/90/0 | 3/90/0 | 3/90/0 | 3/90/0 |

Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Grade 0 (or E): -40C to +150C

Grade 1 (or Q): -40C to +125C

Grade 2 (or T): -40C to +105C

Grade 3 (or I) : -40C to +85C

E1 (TEST): Electrical test temperatures of Qual samples (High temperature according to Grade level):

Room/Hot/Cold : HTOL, ED

Room/Hot : THB / HAST, TC / PTC, HTSL, ELFR, ESD & LU

Room : AC/uHAST

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

TI Qualification ID: R-CHG-2410-075

In performing change qualifications, Texas Instruments follows integrated circuit industry standards in performing defect mechanism analysis and failure mechanism-based accelerated environmental testing to ensure wafer fab process, assembly process and product quality and reliability. As encouraged by these standards, TI uses both product-specific and generic (family) data in qualifying its changes. For devices to be categorized as a 'product qualification family' for generic data purposes, they must share similar product, wafer fab process and assembly process elements. The applicability of generic data (also known at TI as Qualification

by Similarity (QBS)) is determined by the Reliability Engineering function following these industry standards. Generic data is shown in the qualification report in columns titled "QBS Process" (for wafer fab process), "QBS Package" (for assembly process) and "QBS Product" (for product family).

ZVEI ID: SEM-PA-18, SEM-PA-07, SEM-TF-01

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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