



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20250630000.1
Qualify New Assembly Material set for Selected Device(s)
Change Notification / Sample Request

Date: June 30, 2025

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

20250630000.1
Change Notification / Sample Request
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
MSP430FR5949IDAR	
TPL0102-100QPWREP	
ADS8674IDBTR	
MSP430FR2533IDAR	
BQ78350DBTR-R1A	
MSP430FR5858IDA	
MSP430FR6820IG56R	
CCB3Q3306AMPWEP	
MSP430FR4133IG48R	
MSP430FR2033IG48R	
ADS8698IDBT	
MSP430FR5948IDA	
BQ78350DBT-R1A	
ADS8688AIDBTR	
MSP430FR4132IG56R	
ADS8688IDBT	
TLV2462QPWR	
MSP430FR2032IG48R	
ADS8688IDBTR	
SN65LVDS93BDGG	
ADS8688AIDBT	
ADS8694IDBTR	
MSP430FR4132IG48R	
THS1206QDA	
MSP430FR5729IDAR	
ADS8664IDBT	
MSP430FR5729IDA	
MSP430FR2033IG48	
V62/05606-02XE	
CVMEH22501AMDGGREP	
MSP430FR2033IG56	
ADS8678IDBT	
MSP430FR5721IDAR	
BQ78350DBTR-R1A	
MSP430FR4131IG48R	
MSP430FR2033IG56R	
ADS8678IDBTR	
ADS8684IDBT	
MSP430FR4133IG56R	
MSP430FR5739IDAR	
ADS8688ATDBT	
ADS8684AIDBTR	
ADS8684AIDBTR	
ADS8668IDBTR	
MSP430FR5849IDAR	
ADS8668IDBT	
MSP430FR5947IDAR	

ADS8684AIDBT	
THS1206QDA	
ADS8688IDBTR	
MSP430FR5959IDAR	
ADS8684IDBTR	
CCB3Q3306AMPWREP	
MSP430FR2633IDAR	
MSP430FR4131IG48	
TPL0102-100QPWREP	
SN65LVDS93BDGGR	
TLV4316IPWR	
MSP430FR2533IDA	
ADS8668IDBT	
ADS8674IDBT	
MSP430FR2033IG48R	
MSP430FR4131IG56R	
TLV2462AQPWR	
ADS8664IDBTR	

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

PCN Number:	20250630000.1			PCN Date:	June 30, 2025															
Title:	Qualify New Assembly Material set for Selected Device(s)																			
Customer Contact:	Change Management team		Dept:	Quality Services																
Proposed 1st Ship Date:	September 28, 2025		Sample requests accepted until:	August 29, 2025																
*Sample requests received after August 29, 2025 will not be supported.																				
Change Type:																				
☐	Assembly Site	☐	Design	☐	Wafer Bump Material															
☐	Assembly Process	☐	Data Sheet	☐	Wafer Bump Process															
☒	Assembly Materials	☐	Part number change	☐	Wafer Fab Site															
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Material															
☐	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Process															
PCN Details																				
Description of Change:																				
Texas Instruments is pleased to announce the qualification of new assembly material for devices listed in "Product affected" section below. Devices will remain in current assembly facility and piece part changes as follows: Group 1 <table border="1"> <thead> <tr> <th></th> <th>Current</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>Mount compound</td> <td>4042500</td> <td>4147858</td> </tr> </tbody> </table> Group 2 <table border="1"> <thead> <tr> <th></th> <th>Current</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>Mount compound</td> <td>4042500</td> <td>4147858</td> </tr> <tr> <td>Mold compound</td> <td>4209002, 4206193</td> <td>4211471</td> </tr> </tbody> </table>							Current	Proposed	Mount compound	4042500	4147858		Current	Proposed	Mount compound	4042500	4147858	Mold compound	4209002, 4206193	4211471
	Current	Proposed																		
Mount compound	4042500	4147858																		
	Current	Proposed																		
Mount compound	4042500	4147858																		
Mold compound	4209002, 4206193	4211471																		
Reason for Change:																				
Continuity of supply.																				
Current mount compound will stop production September 2025 by the supplier.																				
Anticipated impact on Form, Fit, 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																
☒ No Change		☒ No Change		☒ No Change																
Changes to product identification resulting from this PCN:																				
None																				
Group 1 Product Affected:																				
MSP430FR2032IG48	MSP430FR4132IG48R.A	MSP430FR5857IDAR	MSP430FR5957IDAR.A																	
MSP430FR2032IG48.A	MSP430FR4132IG56	MSP430FR5857IDAR.A	MSP430FR5958IDA																	
MSP430FR2032IG48R	MSP430FR4132IG56.A	MSP430FR5858IDA	MSP430FR5958IDA.A																	
MSP430FR2032IG48R.A	MSP430FR4132IG56R	MSP430FR5858IDA.A	MSP430FR5958IDAR																	

MSP430FR2032IG56	MSP430FR4132IG56R.A	MSP430FR5858IDAR	MSP430FR5958IDAR.A
MSP430FR2032IG56.A	MSP430FR4133IG48	MSP430FR5858IDAR.A	MSP430FR5959IDA
MSP430FR2032IG56R	MSP430FR4133IG48.A	MSP430FR5859IDA	MSP430FR5959IDA.A
MSP430FR2032IG56R.A	MSP430FR4133IG48R	MSP430FR5859IDA.A	MSP430FR5959IDAR
MSP430FR2033IG48	MSP430FR4133IG48R.A	MSP430FR5859IDAR	MSP430FR5959IDAR.A
MSP430FR2033IG48.A	MSP430FR4133IG56	MSP430FR5859IDAR.A	MSP430FR6820IG56R
MSP430FR2033IG48R	MSP430FR4133IG56.A	MSP430FR5922IG56R	MSP430FR6820IG56R.A
MSP430FR2033IG48R.A	MSP430FR4133IG56R	MSP430FR5922IG56R.A	MSP430FR6822IG56R
MSP430FR2033IG56	MSP430FR4133IG56R.A	MSP430FR5947IDA	MSP430FR6822IG56R.A
MSP430FR2033IG56.A	MSP430FR5847IDA	MSP430FR5947IDA.A	MSP430FR6920IG56R
MSP430FR2033IG56R	MSP430FR5847IDA.A	MSP430FR5947IDAR	MSP430FR6920IG56R.A
MSP430FR2033IG56R.A	MSP430FR5847IDAR	MSP430FR5947IDAR.A	MSP430FR69221IG56
MSP430FR4131IG48	MSP430FR5847IDAR.A	MSP430FR5948IDA	MSP430FR69221IG56.A
MSP430FR4131IG48.A	MSP430FR5848IDA	MSP430FR5948IDA.A	MSP430FR6922IG56
MSP430FR4131IG48R	MSP430FR5848IDA.A	MSP430FR5948IDAR	MSP430FR6922IG56.A
MSP430FR4131IG48R.A	MSP430FR5848IDAR	MSP430FR5948IDAR.A	MSP430FR6922IG56R
MSP430FR4131IG56	MSP430FR5848IDAR.A	MSP430FR5949IDA	MSP430FR6922IG56R.A
MSP430FR4131IG56.A	MSP430FR5849IDA	MSP430FR5949IDA.A	MSP430FR59221IG56R
MSP430FR4131IG56R	MSP430FR5849IDA.A	MSP430FR5949IDAR	MSP430FR59221IG56R.A
MSP430FR4131IG56R.A	MSP430FR5849IDAR	MSP430FR5949IDAR.A	MSP430FR68221IG56R
MSP430FR4132IG48	MSP430FR5849IDAR.A	MSP430FR5957IDA	MSP430FR68221IG56R.A
MSP430FR4132IG48.A	MSP430FR5857IDA	MSP430FR5957IDA.A	MSP430FR69221IG56R
MSP430FR4132IG48R	MSP430FR5857IDA.A	MSP430FR5957IDAR	MSP430FR69221IG56R.A

Group 2 Product Affected:

74LVC16244ADGGR-P	ADS8688IDBTR.B	MSP430FR5729IDAR.A	SN74LV8160PWR-P.A
74LVC16244ADGGR-P.B	ADS8694IDBT	MSP430FR5735IDA	SN74LVC08APWR-P
74LVCC3245APWR-P	ADS8694IDBT.B	MSP430FR5735IDA.A	SN74LVC08APWR-P.B
74LVCC3245APWR-P.B	ADS8694IDBTR	MSP430FR5735IDAR	SN74LVC125APWR-P
74LVCH162244AGR-P	ADS8694IDBTR.B	MSP430FR5735IDAR.A	SN74LVC125APWR-P.B
74LVCH162244AGR-P.B	ADS8698IDBT	MSP430FR5739IDA	SN74LVC138APWR-P
ADS8664IDBT	ADS8698IDBT.B	MSP430FR5739IDA.A	SN74LVC138APWR-P.B
ADS8664IDBT.B	ADS8698IDBTR	MSP430FR5739IDAR	SN74LVC139APWR-P
ADS8664IDBTR	ADS8698IDBTR.B	MSP430FR5739IDAR.A	SN74LVC139APWR-P.B
ADS8664IDBTR.B	BQ20Z451DBTR	SN65LVDS93BDGG	SN74LVC157APWR-P
ADS8668IDBT	BQ20Z451DBTR.A	SN65LVDS93BDGG.A	SN74LVC157APWR-P.B
ADS8668IDBT.B	BQ20Z451DBTR.B	SN65LVDS93BDGGR	SN74LVC244APWR-P
ADS8668IDBTR	BQ78350DBT-R1A	SN65LVDS93BDGGR.A	SN74LVC244APWR-P.B
ADS8668IDBTR.B	BQ78350DBT-R1A.A	SN74AHC08PWR-P	SN74LVC245APWR-P
ADS8674IDBT	BQ78350DBTR-R1A	SN74AHC08PWR-P.A	SN74LVC245APWR-P.B
ADS8674IDBT.B	BQ78350DBTR-R1A.A	SN74AHC138PWR-P	SN74LVC32APWR-P
ADS8674IDBTR	CVMEH22501AMDGGREP	SN74AHC138PWR-P.A	SN74LVC32APWR-P.B
ADS8674IDBTR.B	MSP430FR2533IDA	SN74AHC14PWR-P	SN74LVC541APWR-P
ADS8678IDBT	MSP430FR2533IDA.A	SN74AHC14PWR-P.A	SN74LVC541APWR-P.B
ADS8678IDBT.B	MSP430FR2533IDAR	SN74AHC273PWR-P	SN74LVC74APWR-P
ADS8678IDBTR	MSP430FR2533IDAR.A	SN74AHC273PWR-P.A	SN74LVC74APWR-P.B
ADS8678IDBTR.B	MSP430FR2633IDA	SN74AHC541PWR-P	SN74LVC86APWR-P
ADS8684AIDBT	MSP430FR2633IDA.A	SN74AHC541PWR-P.A	SN74LVC86APWR-P.B

ADS8684AIDBT.B	MSP430FR2633IDAR	SN74AHC595PWR-P	THS1206QDA
ADS8684AIDBTR	MSP430FR2633IDAR.A	SN74AHC595PWR-P.A	THS1206QDA.A
ADS8684AIDBTR.B	MSP430FR5721IDA	SN74AHC8541PWR-P	TLC5915AIPWR-P
ADS8684IDBT	MSP430FR5721IDA.A	SN74AHC8541PWR-P.A	TLC5915AIPWR-P.B
ADS8684IDBT.B	MSP430FR5721IDAR	SN74AHCT125PWR-P	TLC5916IPWR-P
ADS8684IDBTR	MSP430FR5721IDAR.A	SN74AHCT125PWR-P.A	TLC5916IPWR-P.B
ADS8684IDBTR.B	MSP430FR5725IDA	SN74AHCT541PWR-P	TLC8101AIPWR-P
ADS8688AIDBT	MSP430FR5725IDA.A	SN74AHCT541PWR-P.A	TLC8101AIPWR-P.A
ADS8688AIDBT.B	MSP430FR5725IDAR	SN74ALVC08PWR-P	TLC8409IPWR-P
ADS8688AIDBTR	MSP430FR5725IDAR.A	SN74ALVC08PWR-P.B	TLC8409IPWR-P.B
ADS8688AIDBTR.B	MSP430FR5727IDAR	SN74ALVC245PWR-P	TXB0106PWR-P
ADS8688ATDBT	MSP430FR5727IDAR.A	SN74ALVC245PWR-P.B	TXB0106PWR-P.B
ADS8688IDBT	MSP430FR5729IDA	SN74LV8159PWR-P	V62/05606-02XE
ADS8688IDBT.B	MSP430FR5729IDA.A	SN74LV8159PWR-P.A	
ADS8688IDBTR	MSP430FR5729IDAR	SN74LV8160PWR-P	

Qualification Report

Approve Date 28-MAY -2025

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: TMS320F28022DAQR	Qual Device: TMS37F128D3IDBTRG4	Qual Device: SN74LVC244AQPWRQ1	Qual Device: CVMEH22501AMDGGREP	QBS Reference: LDC5072A0PWRQ1	QBS Reference: SN74LVTH18512DGGRR	QBS Reference: TLC59116ITPWRQ1	QBS Reference: SN36A0801GPWRQ1
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	-	-	3/231/0	-	3/231/0	3/231/0
UHAST	A3	Autoclave	121C/15psig	96 Hours	-	-	-	-	3/231/0	-	3/231/0	3/231/0
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0	3/231/0	3/231/0	3/231/0	-	-	-	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	3/231/0	3/231/0	3/231/0	-	3/231/0	3/231/0	3/231/0
HTSL	A6	High Temperature Storage Life	170C	420 Hours	-	-	-	3/231/0	-	3/231/0	-	-
HTSL	A6	High Temperature Storage Life	175C	1000 Hours	-	-	-	-	3/231/0	-	-	-
HTSL	A6	High Temperature Storage Life	175C	500 Hours	3/135/0	-	-	-	-	-	1/45/0	-
SD	C3	PB Solderability	Precondition w.155C Steam Age (8 hrs +/- 15 minutes)	-	-	-	-	-	1/15/0	-	-	-
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes)	-	1/15/0	-	-	-	1/15/0	-	-	-
SD	C3	PB-Free Solderability	Precondition w.155C Steam Age (8 hrs +/- 15 minutes)	-	1/15/0	-	-	-	1/15/0	-	-	-
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder;	-	-	-	-	3/66/0	-	-	-	-
PD	C4	Physical Dimensions	Cpk>1.67	-	3/30/0	3/30/0	3/30/0	-	-	-	-	1/10/0

QBS: Qual By Similarity, also known as Generic Data

Qual Device TMS320F28022DAQR is qualified at MSL2 260C

Qual Device TMS37F128D3IDBTRG4 is qualified at MSL2 260C

Qual Device SN74LVC244AQPWRQ1 is qualified at MSL1 260C

Qual Device CVMEH22501AMDGGREP is qualified at MSL1 260C

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

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

TI Qualification ID: R-CHG-2405-046

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).

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

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