12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20250130000.1
Qualification of additional BOM materials for selected devices
Change Notification / Sample Request

Date: January 30, 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

20250130000.1
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
MSP430I2031TPW	MSP430I2031TPW
MSP430I2041TPWR	MSP430I2041TPWR
PGA281AIPWR	NULL
MUX36D08IPW	MUX36D08IPW
CD74HC154M96	NULL
MUX36S16IPWR	MUX36S16IPWR
UCC28951PWT	UCC28951PWT
MSP430I2040TPWR	MSP430I2040TPWR
MUX507IPWR	NULL
MUX506IPWR	NULL
MSP430I2021TPW	MSP430I2021TPW
MSP430I2041TPW	MSP430I2041TPW
PGA281AIPW	PGA281AIPW
TLC6C598PWR	TLC6C598PWR
MSP430I2040TPWR	595-MSP430I2040TPWR
BQ7790511PW	BQ7790511PW
MUX36D08IPW	595-MUX36D08IPW
PGA302EPWT	NULL
UCC28951PWR	UCC28951PWR
MSP430I2040TPW	MSP430I2040TPW

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

PCN Number:	20250130000.1	PCN Date:	January 30, 2025
Title:	Qualification of additional BOM materials for selected devices		
Customer Contact:	Change Management team	Dept:	Quality Services
Proposed 1st Ship Date:	April 30, 2025	Sample Requests accepted until:	March 31, 2025*

***Sample requests received after March 31, 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:

This PCN is to inform of the qualification of an additional BOM materials for the list of devices in the product affected sections below.

Group 1 Device

What	Current	Additional
Mount Compound	4042500	4147858
Mold compound	4205694	4211471

Group 2 Device

What	Current	Additional
Mount Compound	4211470, 4042500	4147858

Qualification results are shown below

Reason for Change:

Standardization

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	IEC 62474
☒ No Change	☒ No Change	☒ No Change	☒ No Change

Changes to product identification resulting from this PCN:

None

Group 1 Product Affected:

CD74HC154M96

Group 2 Product Affected:

BQ7790400PW	BQ7790509PWR	MSP430I2040TPW	PGA281AIPWR
BQ7790400PWR	BQ7790511PW	MSP430I2040TPWR	PGA302EPWR
BQ7790500PW	BQ7790511PWR	MSP430I2041TPW	PGA302EPWT
BQ7790500PWR	BQ7790512PW	MSP430I2041TPWR	SN1401039PW
BQ7790502PW	BQ7790512PWR	MUX36D08IPW	SN1401039PWR

BQ7790502PWR	MSP430I2020TPW	MUX36D08IPWR	SN2011001PWR
BQ7790503PW	MSP430I2020TPWR	MUX36S16IPW	TLC6C5912PWR
BQ7790503PWR	MSP430I2021TPW	MUX36S16IPWR	TLC6C598PWR
BQ7790505PW	MSP430I2021TPWR	MUX506IPW	UCC28951PWR
BQ7790505PWR	MSP430I2030TPW	MUX506IPWR	UCC28951PWT
BQ7790508PW	MSP430I2030TPWR	MUX507IPW	
BQ7790508PWR	MSP430I2031TPW	MUX507IPWR	
BQ7790509PW	MSP430I2031TPWR	PGA281AIPW	

Qualification Report

Approve Date 08-JANUARY -2025

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: DAC8564IAPW	QBS Reference: LDC5072A0PWQ1	QBS Reference: TLC59116ITPWRQ1	QBS Reference: SN36A0801GPWRQ
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	-	-	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	-	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	-	-	1/45/0	-
HTOL	B1	Life Test	125C	1000 Hours	-	-	-	3/231/0
HTOL	B1	Life Test	125C	408 Hours	-	-	1/77/0	-
HTOL	B1	Life Test	150C	3053 Hours	-	3/231/0	-	-
HTOL	B1	Life Test	160C	500 Hours	-	3/231/0	-	-
ELFR	B2	Early Life Failure Rate	150C	48 Hours	-	3/2400/0	-	-
SD	C3	PB Solderability	Precondition w.155C Steam Age (8 hrs +/- 15 minutes)	-	-	1/15/0	-	-
SD	C3	PB-Free Solderability	Precondition w.155C Steam Age (8 hrs +/- 15 minutes)	-	-	1/15/0	-	-
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder;	-	1/22/0	-	-	-
PD	C4	Physical Dimensions	Cpk>1.67	-	-	-	-	1/10/0
ESD	E2	ESD CDM	-	1500 Volts	-	1/3/0	1/3/0	-
ESD	E2	ESD CDM	-	500 Volts	-	-	-	1/3/0
ESD	E2	ESD CDM	-	750 Volts	-	1/3/0	-	-
ESD	E2	ESD HBM	-	2000 Volts	-	-	1/3/0	1/3/0
ESD	E2	ESD HBM	-	4000 Volts	-	1/3/0	-	-
LU	E4	Latch-Up	Per JESD78	-	-	1/6/0	1/6/0	1/3/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	3/90/0	-	-	-
CHAR	E5	Electrical Distributions	Cpk>1.67 Room, hot, and cold	-	-	-	3/90/0	3/90/0

QBS: Qual By Similarity, also known as Generic Data

Qual Device DAC8564IAPW 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

Qualification Report

Approve Date 12-May-2016

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: ADS1213U	Qual Device: ADS820U	Qual Device: ADS8504IBDW	Qual Device: MSP430F123IDWR	Qual Device: SN65LBC170DW
AC	Autoclave 121C	96 Hours	1/77/0	-	1/77/0	1/77/0	1/77/0
ED	Electrical Characterization, side by side	Per datasheet parameters	Pass	Pass	Pass	-	Pass
HAST	Biased HAST, 130C/85%RH	192 Hours	-	-	-	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	-	-
HTSL	High Temp Storage Bake 170C	420 Hours	1/77/0	-	1/77/0	1/77/0	1/77/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	Pass	Pass
TC	Temperature Cycle, -65/150C	500 Cycles	1/77/0	3/231/0	1/77/0	1/77/0	1/77/0

Type	Test Name / Condition	Duration	Qual Device: SN65LBC170DW_SSTN	Qual Device: SN74LVC541ADW	Qual Device: SN74LVC541ADW_SSTN	QBS Package Reference: TL494IDR	QBS Package Reference: ULQ2003AQDRQ1_STDLF
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	3/231/0	-	3/231/0
ED	Electrical Characterization, side by side	Per datasheet parameters	Pass	Pass	Pass	-	-
HAST	Biased HAST, 130C/85%RH	192 Hours	-	-	-	3/231/0	3/217/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	3/231/0	3/231/0
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	3/231/0	3/231/0	-	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0	3/231/0	-	3/231/0

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
Quality and Environmental data is available at TI's external Web site: http://www.ti.com/
Green/Pb-free Status:
Qualified Pb-Free(SMT) and Green

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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