



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20230515000.1A

**Qualification of new BOM for select package Devices
Change Notification / Sample Request**

Date: July 13, 2023

To: TOKYO ELECTRON DEVICE (DSTR) PCN

Dear Customer:

Revision A is to announce the retraction of select devices.

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 **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within **30 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.

Sincerely,

Change Management Team
SC Business Services

20230515000.1A
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
LP5907MFX-2.5/NOPB	null
LMC7101BIM5/NOPB	null
LM321MF/NOPB	null
LP2980AIM5-5.0/NOPB	null
LP2980AIM5X-5.0/NOPB	null
LP2980IM5-5.0/NOPB	null
LP2985IM5-3.3/NOPB	null
LP2985IM5-5.0/NOPB	null
LMC7101AIM5/NOPB	null
LP5907MFX-3.3/NOPB	null
LMC7101BIM5X/NOPB	null
LP2980AIM5-3.3/NOPB	null
LP2980IM5-3.0/NOPB	null
LP2985AIM5-5.0/NOPB	null
LP5907MFX-2.8/NOPB	null
LP5907MFX-3.2/NOPB	null
LP2985AIM5-3.3/NOPB	null
LP2985AIM5X-5.0/NOPB	null
LP5907MFX-3.0/NOPB	null
LM321MFX/NOPB	null
LP2980IM5X-3.3/NOPB	null
LP5907MFX-4.5/NOPB	null
LP5907MFX-1.5/NOPB	null
LP2980IM5X-5.0/NOPB	null
LP2985AIM5X-3.3/NOPB	null

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

PCN Number:	20230515000.1A			PCN Date:	July 13, 2023
Title:	Qualification of new BOM for select package Devices				
Customer Contact:	Change Management		Dept:	Quality Services	
Proposed 1st Ship Date:	Aug 16, 2023		Sample requests accepted until:	June 16, 2023*	
*Sample requests received after June 16, 2023 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:					
Revision A is to remove devices in the Product Affected Section (in bold character with strike through). This device will continue to be manufactured as prior and will not be subjected to the change described in this notification. Texas Instruments Incorporated is announcing the qualification of new material set for the devices listed in the "Product Affected" Section. Devices will remain at current location.					
Material Difference:					
	Current	Proposed			
Lead finish	NiPdAu	Matte Sn			
Upon expiration of this PCN, TI will combine lead free solutions in a single <u>standard part number</u>, for example; <u>SN566230RJER</u> – can ship with both Matte Sn and NiPdAu. Example: – Customer order for 7500 units of SN566230RJER with 2500 units SPQ (Standard Pack Quantity per Reel). – TI can satisfy the above order in one of the following ways. I. 3 Reels of NiPdAu finish. II. 3 Reels of Matte Sn finish III. 2 Reels of Matte Sn and 1 reel of NiPdAu finish. IV. 2 Reels of NiPdAu and 1 reel of Matte Sn finish.					
Reason for Change:					
Continuity of supply.					
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:

Sample product shipping label (not actual product label)

G4 = NiPdAu
G3 = Matte Sn

 **TEXAS INSTRUMENTS**
 MADE IN: Malaysia
 2DC: 20:
 MSL '2 / 260C/1 YEAR SEAL DT
 MSL 1 / 235C/UNLIM 03/29/04
 OPT:
 ITEM: 39
 LBL: 5A (L)T0:1750



(1P) SN74LS07NSR
 (Q) 2000 (D) 0336
 (31T) LOT: 3959047MLA
 (4W) TKY (1T) 7523483SI2
 (P)
 (2P) REV: (V) 0033317
 (20L) CS0: SHE (21L) CC0:USA
 (22L) AS0: MLA (23L) AC0: MYS

Product Affected:

74AVC1T45DBVR	TLV9001IDBVR	SN1601022DBVT	TPS56C231LRNNR
905X0205100	TLV9001RIDBVR	SN1603041DBVR	TPS613221ADBVR
LM321LVIDBVR	TLV9001RIDBVT	SN1603041DBVT	TPS613221ADBVT
LM321MF	TLV9001SIDBVR	SN1603833DBVR	TPS613222ADBVR
LM321MF/NOPB	TLV9001SIDBVT	SN1805022IDBVR	TPS613222ADBVT
LM321MFX	TLV9001UIDBVR	SN1901027DBVR	TPS613223ADBVR
LM321MFX/NOPB	TLV9041IDBVR	SN2001075ARW ZR	TPS613223ADBVT
LMC7101AIM5	TLV9041SIDBVR	SN2001076ARW ZR	TPS613226ADBVR
LMC7101AIM5/NOPB	TLV9041UIDBVR	SN74AXC1T45DBVR	TPS613226ADBVT
LMC7101AIM5X/NOPB	TLV9051IDBVR	SN74AXCH1T45DBVR	TPS62441RQRR
LMC7101BIM5	TLV9051SIDBVR	SN74LVC1G3157DBVR	TPS62442RQRR
LMC7101BIM5/NOPB	TLV9061IDBVR	SN74LXC1T45DBVR	TPS76138DBVR
LMC7101BIM5X	TLV9061SIDBVR	SNHYNXLTDLJR	TPS76138DBVT
LMC7101BIM5X/NOPB	TLV9101IDBVR	TAS2763RPPR	TPS76925DBVR
LMC7101BIM5X/S7001246	TLV9101SIDBVR	TAS2781DCRYR	TPS76925DBVT
LMC7101BIM5X/S7002311	TLV9151IDBVR	TL071HIDBVR	TPS76933DBVT
LMR33630CRNXT	TLV9151SIDBVR	TL081HIDBVR	TPS78401DBVR
LMR50410XDBVR	TLV9161IDBVR	TL331BIDBVR	TPS78833DBVR
LMR50410XFDBVR	TLV9161SIDBVR	TL391BIDBVR	TPS78833DBVT
LMR54406DBVR	TLV9301IDBVR	TLV1805DBVR	TPS7A0208PDBVR
LMR54406FDBVR	TLV9351IDBVR	TLV2241IDBVR	TPS7A0212PDBVR
LMR54410DBVR	TLV9351SIDBVR	TLV2241IDBVT	TPS7A0212PDBVT
LMR54410FDBVR	TLV9361IDBVR	TLV2401CDBVR	TPS7A0215PDBVR
LMV321AIDBVR	TMUX1101DBVR	TLV2401CDBVT	TPS7A0215PDBVT
LMV321AUIDBVR	TMUX1102DBVR	TLV2401IDBVR	TPS7A0218PDBVR
LMV321IDBVT	TPS2001DDBVR	TLV3401CDBVR	TPS7A0218PDBVT
LP2980AIM5-3.0	TPS2001DDBVT	TLV3401CDBVT	TPS7A0220PDBVR
LP2980AIM5-3.0/NOPB	TPS2041CDBVR	TLV6001IDBVR	TPS7A0220PDBVT
LP2980AIM5-3.3	TPS2041CDBVT	TLV6001IDBVT	TPS7A0222PDBVR
LP2980AIM5-3.3/NOPB	TPS2051CDBVR	TLV6001UIDBVR	TPS7A0222PDBVT

LP2980AIM5-5.0	TPS2051CDBVT	TLV6001UIDBVT	TPS7A0223PDBVR
LP2980AIM5-5.0/NOPB	TPS2061CDBVR	TLV6003DBVR	TPS7A0223PDBVT
LP2980AIM5X-3.0/NOPB	TPS2061CDBVT	TLV61046ADBVR	TPS7A0225PDBVR
LP2980AIM5X-3.3	TPS2065CDBVR	TLV61046ADBVT	TPS7A0225PDBVT
LP2980AIM5X-3.3/NOPB	TPS2065CDBVR-2	TLV61046DBVR	TPS7A0228PDBVR
LP2980AIM5X-5.0/NOPB	TPS2065CDBVT	TLV61046DBVT	TPS7A0228PDBVR-LF
LP2980IM5-3.0/NOPB	TPS2065CDBVT-2	TLV61048DBVR	TPS7A0228PDBVT
LP2980IM5-3.3	TPS2065DDBVR	TLV61048DBVT	TPS7A0230PDBVR
LP2980IM5-3.3/NOPB	TPS2065DDBVT	TLV61070DBVT	TPS7A0230PDBVT
LP2980IM5-5.0/NOPB	TPS2069CDBVR	TLV62565DBVR	TPS7A0233PDBVR
LP2980IM5X-3.0/NOPB	TPS2069CDBVT	TLV62565DBVT	TPS7A0233PDBVT
LP2980IM5X-3.3	TPS2069DDBVR	TLV62566DBVR	TPS7A0236PDBVR
LP2980IM5X-3.3/NOPB	TPS2069DDBVT	TLV62566DBVT	TPS7A0236PDBVT
LP2980IM5X-5.0/NOPB	TPS22810DBVR	TLV62568DBVR	TPS7A0250PDBVR
LP2985AIM5-3.3	TPS22810DBVT	TLV62568DBVT	TPS7A0312PDBVR
LP2985AIM5-3.3/NOPB	TPS22811LRPWR	TLV62569DBVR	TPS7A0312PDBVT
LP2985AIM5-5.0	TPS22917DBVR	TLV62569DBVT	TPS7A0315PDBVR
LP2985AIM5-5.0/NOPB	TPS22917DBVT	TLV70133DBVR	TPS7A0315PDBVT
LP2985AIM5X-3.3/NOPB	TPS22917LDBVR	TLV70133DBVT	TPS7A0318PDBVR
LP2985AIM5X-5.0/NOPB	TPS22918DBVR	TLV70212DBVR	TPS7A0318PDBVT
LP2985IM5-3.3	TPS22918DBVT	TLV70212DBVT	TPS7A0320PDBVR
LP2985IM5-3.3/NOPB	TPS22997RYZR	TLV70213DBVR	TPS7A0320PDBVT
LP2985IM5-5.0	TPS2513DBVR	TLV70213DBVT	TPS7A0322PDBVR
LP2985IM5-5.0/NOPB	TPS2513DBVT	TLV70215DBVR	TPS7A0322PDBVT
LP2985IM5X-3.3/NOPB	TPS2514DBVR	TLV70215DBVT	TPS7A0323PDBVR
LP2985IM5X-3.3/S5001421	TPS2514DBVT	TLV70218DBVR	TPS7A0323PDBVT
LP2985IM5X-5.0	TPS25221DBVR	TLV70218DBVT	TPS7A0325PDBVR
LP2985IM5X-5.0/NOPB	TPS25221DBVT	TLV70225DBVR	TPS7A0325PDBVT
LP3470A263DBVR	TPS2552DBVR	TLV70225DBVT	TPS7A0328PDBVR
LP3470A275DBVR	TPS2552DBVT	TLV70228DBVR	TPS7A0328PDBVT
LP3470A293DBVR	TPS2552DDBVR	TLV70228DBVT	TPS7A0330PDBVR
LP3470A308DBVR	TPS2552DDBVT	TLV70229DBVR	TPS7A0330PDBVT
LP3470A365DBVR	TPS2553DBVR	TLV70229DBVT	TPS7A0331PDBVR
LP3470A400DBVR	TPS2553DBVR-1	TLV70230DBVR	TPS7A0331PDBVT
LP3470A438DBVR	TPS2553DBVT	TLV70230DBVT	TPS7A0333PDBVR
LP3470A463DBVR	TPS2553DBVT-1	TLV70231DBVR	TPS7A0333PDBVT
LP5907MFX-1.2/NOPB	TPS2553DDBVR	TLV70231DBVT	TPS7A0336PDBVR
LP5907MFX-1.5/NOPB	TPS2553DDBVT	TLV70233DBVR	TPS7A0336PDBVT
LP5907MFX-2.5/NOPB	TPS259814ARPWR	TLV70233DBVT	TPS7A0508PDBVR
LP5907MFX-2.8/NOPB	TPS3840ADL18DBVR	TLV70235DBVR	TPS7A0508PDBVT
LP5907MFX-2.9/NOPB	TPS3840ADL27DBVR	TLV70235DBVT	TPS7A0510PDBVR
LP5907MFX-3.0/NOPB	TPS3840ADL29DBVR	TLV70237DBVR	TPS7A0510PDBVT
LP5907MFX-3.1/NOPB	TPS3840ADL30DBVR	TLV70237DBVT	TPS7A0512PDBVR
LP5907MFX-3.2/NOPB	TPS3840ADL32DBVR	TLV70245DBVR	TPS7A0512PDBVT
LP5907MFX-3.3/NOPB	TPS3840APL20DBVR	TLV70245DBVT	TPS7A0515PDBVR
LP5907MFX-4.5/NOPB	TPS3840APL27DBVR	TLV702475DBVR	TPS7A0515PDBVT

LPV821DBVR	TPS3840APL28DBVR	TLV702475DBVT	TPS7A0518PDBVR
LPV821DBVT	TPS3840APL30DBVR	TLV70433DBVR	TPS7A0518PDBVT
LV3842XDBVR	TPS3840APL40DBVR	TLV70433DBVT	TPS7A0522PDBVR
LV3842XDBVT	TPS3840DL16DBVR	TLV70436DBVR	TPS7A0522PDBVT
LV3842XFDBVR	TPS3840DL17DBVR	TLV70436DBVT	TPS7A0525PDBVR
LV3842XFDBVT	TPS3840DL18DBVR	TLV71209DBVR	TPS7A0525PDBVT
MCP6291IDBVR	TPS3840DL18DBVR-SM	TLV71209DBVT	TPS7A05285PDBVR
OPA1677DBVR	TPS3840DL19DBVR	TLV71210DBVR	TPS7A05285PDBVT
OPA1677DBVT	TPS3840DL20DBVR	TLV71210DBVT	TPS7A0530PDBVR
OPA607IDBVR	TPS3840DL22DBVR	TLV71211DBVR	TPS7A0530PDBVT
OPA607IDBVT	TPS3840DL24DBVR	TLV71211DBVT	TPS7A0531PDBVR
OPA990IDBVR	TPS3840DL25DBVR	TLV74010PDBVR	TPS7A0531PDBVT
OPA990SIDBVR	TPS3840DL27DBVR	TLV74018PDBVR	TPS7A0533PDBVR
OPA991IDBVR	TPS3840DL28DBVR	TLV74033PDBVR	TPS7A0533PDBVT
OPA991SIDBVR	TPS3840DL29DBVR	TLV75509PDBVR	TPS7A2009PDBVR
OPA992IDBVR	TPS3840DL30DBVR	TLV75510PDBVR	TPS7A2012PDBVR
OPA992SIDBVR	TPS3840DL31DBVR	TLV75511PDBVR	TPS7A2015PDBVR
P840CADLUUDBVR	TPS3840DL35DBVR	TLV75511PDBVT	TPS7A20185PDBVR
P840MADLUUDBVR	TPS3840DL40DBVR	TLV75512PDBVR	TPS7A2018PDBVR
P840MAPH29DBVR	TPS3840DL42DBVR	TLV75515PDBVR	TPS7A2024PDBVR
P840MAPL28DBVRQ1	TPS3840DL44DBVR	TLV75518PDBVR	TPS7A2025PDBVR
P840NADLUUDBVR	TPS3840DL45DBVR	TLV75519PDBVR	TPS7A20285PDBVR
PQ25792DCRQMR	TPS3840DL46DBVR	TLV75525PDBVR	TPS7A2028PDBVR
PSN74AXCH1T45DBVR	TPS3840DL49DBVR	TLV75528PDBVR	TPS7A2029PDBVR
PSN74LXC1T45DBVR	TPS3840PH18DBVR	TLV75529PDBVR	TPS7A2030PDBVR
PTAS2780B0RYAR	TPS3840PH19DBVR	TLV75529PDBVT	TPS7A2031PDBVR
PTLV840CADL11DBVR	TPS3840PH27DBVR	TLV75530PDBVR	TPS7A2032PDBVR
PTLV840CADL40DBVR	TPS3840PH30DBVR	TLV75530PDBVT	TPS7A2033PDBVR
PTLV840CAPL29DBVR	TPS3840PH40DBVR	TLV75533PDBVR	TPS7A2036PDBVR
PTLV840MAPL29DBVR	TPS3840PH45DBVR	TLV75550PDBVT	TPS7A2042PDBVR
PTLV840MAPL30DBVR	TPS3840PH49DBVR	TLV75709PDBVR	TPS7A2045PDBVR
PTLV840NADL35DBVR	TPS3840PL16DBVR	TLV75710PDBVR	TPS7A2050PDBVR
PTLV840NAPL29DBVR	TPS3840PL18DBVR	TLV75712PDBVR	TPS7A2055PDBVR
PTLV8541DBVT	TPS3840PL20DBVR	TLV75715PDBVR	TPS7A24125DBVR
PTLV9001RIDBVR	TPS3840PL25DBVR	TLV75718PDBVR	TPS7A2418DBVR
PTLV9001SIDBVT	TPS3840PL26DBVR	TLV75719PDBVR	TPS7A2425DBVR
PTLV9061IDBVT	TPS3840PL27DBVR	TLV75725PDBVR	TPS7A2430DBVR
PTPS2001DDBVT	TPS3840PL28DBVR	TLV75728PDBVR	TPS7A2433DBVR
PTPS22918DBVR	TPS3840PL29DBVR	TLV75729PDBVR	TPS7A2436DBVR
PTPS22918DBVT	TPS3840PL30DBVR	TLV75730DBVR	TPS7A2450DBVR
PTPS22992RXNR	TPS3840PL31DBVR	TLV75730DBVT	TPS92612DBVR
PTPS22992RXPR	TPS3840PL33DBVR	TLV75730PDBVR	TPSJB4AMPDLJR
PTPS22992RXQR	TPS3840PL34DBVR	TLV75730PDBVT	TS321LVIDBVR
PTPS22992SRXNR	TPS3840PL40DBVR	TLV75733PDBVR	TSV911AIDBVR
PTPS22997RYZR	TPS3840PL41DBVR	TLV840CADL11DBVR	UCC27517ADBVR
PTPS259851RQPR	TPS3840PL42DBVR	TLV840CADL14DBVR	UCC27517ADBVT
PTPS25990ARQPR	TPS3840PL43DBVR	TLV840CADL28DBVR	UCC27517DBVR
PTPS3840ADL27DBVR	TPS3840PL45DBVR	TLV840CADL29DBVR	UCC27517DBVT
PTPS3840PL40DBVR	TPS3840PL48DBVR	TLV840CADL40DBVR	ULC1001DCRQTR
PTPS51383RJNR	TPS51384RJNR	TLV840CAPL28DBVR	ULC1001RQTR

PTPS53830ARW ZR	TPS51386RJNR	TLV840CAPL29DBVR	X28661P0RQC
PTPS53832ARW ZR	TPS51487XRJET	TLV840MADL08DBVR	XSN2001075RW ZR
PTPS543320RPYR	TPS53830ARW ZR	TLV840MADL13DBVR	XSN2001075RW ZT
PTPS543820RPYR	TPS53832ARW ZR	TLV840MADL29DBVR	XSN2001076RW ZR
PTPS552872RYQR	TPS552872RYQR	TLV840MADL30DBVR	XSN2001076RW ZT
PTPS61288LRQQR	TPS552892RYQR	TLV840MADL52DBVR	XTPS51383RJNR
PTPS61288RQQT	TPS560430X3FDBVR	TLV840MAPL30DBVR	XTPS51488RJER
PTPS7A0236PDBVR	TPS560430X3FDBVT	TLV840NADH29DBVR	XTPS53830RW ZR
PTPS7A20185PDBVR	TPS560430XDBVR	TLV840NADL20DBVR	XTPS53831RW ZR
PTPS7A2024PDBVR	TPS560430XDBVT	TLV840NADL29DBVR	XTPS53831RW ZT
PULC1001RQTR	TPS560430XFDBVR	TLV840NADL33DBVR	XTPS53832RW ZR
SN1409057DBVR	TPS560430XFDBVT	TLV840NADL35DBVR	XTPS55288RPMR
SN1512013DBVR	TPS560430YDBVR	TLV840NADL46DBVR	XTPS552892RYQR
SN1512013DBVT	TPS560430YDBVT	TLV840NAPL29DBVR	XTPS56C231RNNR
SN1512017DBVR	TPS560430YFDBVR	TLV840NAPL50DBVR	XTPS61288RQQR
SN1512017DBVT	TPS560430YFDBVT	TLV8541DBVR	
SN1601022DBVR	TPS568231RNNR	TLV8541DBVT	

Qualification Report

Approve Date 03-Apr-2023

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: TPS76933DBVR	Qual Device: TL331IDBVRG4	Qual Device: TLV9051SIDBVR	Qual Device: TPS2553DDBVR	Qual Device: LV3842XDBVR	QBS Reference: TLV9061IDBVR
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	-	-	-	3/231/0
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0	3/231/0	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
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	-	-	-	-	3/231/0	-
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	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
HTOL	B1	Life Test	150C	300 Hours	-	-	-	-	-	3/231/0
WBS	C1	Ball Shear	76 balls, 3 units min	Wires	-	-	-	-	-	3/228/0
WBP	C2	Bond Pull	76 Wires, 3 units min	Wires	-	-	-	-	-	3/228/0
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB- Free Solder;	-	1/22/0	1/22/0	1/22/0	1/22/0	1/22/0	3/66/0
PD	C4	Physical Dimensions	(per mechanical drawing)	-	-	-	-	-	-	3/15/0
FTY	E6	Final Test Yield	-	-	-	-	-	-	-	3/3/0

QBS: Qual By Similarity

Qual Device TPS76933DBVR is qualified at MSL1 260C
Qual Device TL331IDBVRG4 is qualified at MSL1 260C
Qual Device TLV9051SIDBVR is qualified at MSL1 260C
Qual Device TPS2553DDBVR is qualified at MSL1 260C
Qual Device LV3842XDBVR 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/>
Green/Pb-free Status: Qualified Pb-Free(SMT) and Green

Qualification Report

Approve Date 22-June-2021

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TPS53831RWZR	Qual Device: TPS543620RPYR	Qual Device: TPS62903RPJR	QBS Package Reference: SN62825DMQR	QBS Package Reference: TPS62085RLTR
AC	Autoclave 121C	96 Hours	3/231/0	-	3/231/0	-	3/231/0
CDM	ESD - CDM	1500V	-	-	-	2/6/0	-
HAST	Biased HAST, 130C/85%RH	96 Hours	2/154/0	-	-	3/231/0	3/231/0
HBM	ESD - HBM	3000V	-	-	-	1/3/0	-
HTSL	High Temp Storage Bake 150C	1000 Hours	-	-	-	-	3/231/0
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	3/231/0	3/231/0	3/231/0	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	Pass	Pass
MSL	Thermal Integrity Sequence	Level 2-260C	3/36/0	3/36/0	3/36/0	-	3/36/0
PD	Physical Dimensions	(per mechanical drawing)	3/15/0	3/15/0	3/15/0	-	3/15/0
SD	Solderability	Pb Free	3/66/0	3/66/0	3/66/0	2/44/0	3/66/0
TC	Temperature Cycle, -55/125C	700 Cycles	3/231/0	3/231/0	-	-	3/231/0
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	3/231/0	3/231/0	-
UHAST	Unbiased HAST 130C/85%RH	96 Hours	-	3/231/0	-	3/231/0	-
VM	Visual Quality Reliability Inspection	Post Temp Cycle	3/6/0	3/6/0	3/6/0	-	3/6/0

- QBS: Qual By Similarity
- Qual Device TPS53831RWZR, TPS543620RPYR, TPS62903RPJR are qualified at LEVEL2-260C
- 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/>
Green/Pb-free Status: Qualified Pb-Free(SMT) and Green

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

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.