

<b>PCN Number:</b>	20230515000.1		<b>PCN Date:</b>	May 17, 2023	
<b>Title:</b>	Qualification of new BOM for select package Devices				
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services		
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Aug 16, 2023	<b>Sample requests accepted until:</b>	June 16, 2023*		
*Sample requests received after June 16, 2023 will not be supported.					
<b>Change Type:</b>					
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials
				<input type="checkbox"/>	Wafer Fab Process
<b>PCN Details</b>					
<b>Description of Change:</b>					
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.					
<b>Material Difference:</b>					
	<b>Current</b>	<b>Proposed</b>			
Lead finish	NiPdAu	Matte Sn			
Upon expiration of this PCN, TI will combine lead free solutions in a single <a href="#">standard part number</a> , for example; <a href="#">SN566230RJER</a> – can ship with both Matte Sn and NiPdAu.					
Example:					
<ul style="list-style-type: none"> <li>- Customer order for 7500 units of SN566230RJER with 2500 units SPQ (Standard Pack Quantity per Reel).</li> <li>- TI can satisfy the above order in one of the following ways. <ul style="list-style-type: none"> <li>I. 3 Reels of NiPdAu finish.</li> <li>II. 3 Reels of Matte Sn finish</li> <li>III. 2 Reels of Matte Sn and 1 reel of NiPdAu finish.</li> <li>IV. 2 Reels of NiPdAu and 1 reel of Matte Sn finish.</li> </ul> </li> </ul>					
<b>Reason for Change:</b>					
Continuity of supply.					
<b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>					
None					
<b>Impact on Environmental Ratings</b>					
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.					
<b>RoHS</b>	<b>REACH</b>	<b>Green Status</b>	<b>IEC 62474</b>		
<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change		

**Changes to product identification resulting from this PCN:**

Sample product shipping label (not actual product label)

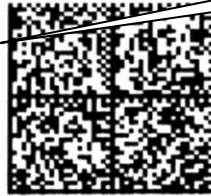
G4 = NiPdAu  
G3 = Matte Sn



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) CSO: SHE (21L) CCO:USA  
(22L) ASO: MLA (23L) ACO: MYS

**Product Affected:**

74AVC1T45DBVR	SN1603041DBVR	TLV9001IDBVR	TPS568231RNNR
905X0205100	SN1603041DBVT	TLV9001RIDBVR	TPS56C231LRNNR
LM321LVIDBVR	SN1603833DBVR	TLV9001RIDBVT	TPS613221ADBVR
LM321MF	SN1805022IDBVR	TLV9001SIDBVR	TPS613221ADBVT
LM321MF/NOPB	SN1901027DBVR	TLV9001SIDBVT	TPS613222ADBVR
LM321MFX	SN2001075ARW ZR	TLV9001UIDBVR	TPS613222ADBVT
LM321MFX/NOPB	SN2001075ARW ZR	TLV9041IDBVR	TPS613223ADBVR
LMC7101AIM5	SN2001076ARW ZR	TLV9041SIDBVR	TPS613223ADBVT
LMC7101AIM5/NOPB	SN2001076ARW ZR	TLV9041UIDBVR	TPS613226ADBVR
LMC7101AIM5X/NOPB	SN74AXC1T45DBVR	TLV9051IDBVR	TPS613226ADBVT
LMC7101BIM5	SN74AXCH1T45DBVR	TLV9051SIDBVR	TPS62441RQRR
LMC7101BIM5/NOPB	SN74LVC1G3157DBVR	TLV9061IDBVR	TPS62442RQRR
LMC7101BIM5X	SN74LXC1T45DBVR	TLV9061SIDBVR	TPS76138DBVR
LMC7101BIM5X/NOPB	SNHYNXLTDLJR	TLV9101IDBVR	TPS76138DBVT
LMC7101BIM5X/S7001246	TAS2763RPPR	TLV9101SIDBVR	TPS76925DBVR
LMC7101BIM5X/S7002311	TAS2781DCRYR	TLV9151IDBVR	TPS76925DBVT
LMR33630CRNXT	TL071HIDBVR	TLV9151SIDBVR	TPS76933DBVT
LMR50410XDBVR	TL081HIDBVR	TLV9161IDBVR	TPS78401DBVR
LMR50410XFDDBVR	TL331BIDBVR	TLV9161SIDBVR	TPS78833DBVR
LMR54406DBVR	TL391BIDBVR	TLV9301IDBVR	TPS78833DBVT
LMR54406FDBVR	TLV1805DBVR	TLV9351IDBVR	TPS7A0208PDBVR
LMR54410DBVR	TLV2241IDBVR	TLV9351SIDBVR	TPS7A0212PDBVR
LMR54410FDBVR	TLV2241IDBVT	TLV9361IDBVR	TPS7A0212PDBVT
LMV321AIDBVR	TLV2401CDBVR	TMUX1101DBVR	TPS7A0215PDBVR
LMV321AUIDBVR	TLV2401CDBVT	TMUX1102DBVR	TPS7A0215PDBVT
LMV321IDBVT	TLV2401IDBVR	TPS2001DDBVR	TPS7A0218PDBVR
LP2980AIM5-3.0	TLV3401CDBVR	TPS2001DDBVT	TPS7A0218PDBVT
LP2980AIM5-3.0/NOPB	TLV3401CDBVT	TPS2041CDBVR	TPS7A0220PDBVR
LP2980AIM5-3.3	TLV6001IDBVR	TPS2041CDBVT	TPS7A0220PDBVT
LP2980AIM5-3.3/NOPB	TLV6001IDBVT	TPS2051CDBVR	TPS7A0222PDBVR
LP2980AIM5-5.0	TLV6001UIDBVR	TPS2051CDBVT	TPS7A0222PDBVT
LP2980AIM5-5.0/NOPB	TLV6001UIDBVT	TPS2061CDBVR	TPS7A0223PDBVR
LP2980AIM5X-3.0/NOPB	TLV6003DBVR	TPS2061CDBVT	TPS7A0223PDBVT
LP2980AIM5X-3.3	TLV61046ADBVR	TPS2065CDBVR	TPS7A0225PDBVR
LP2980AIM5X-3.3/NOPB	TLV61046ADBVT	TPS2065CDBVR-2	TPS7A0225PDBVT
LP2980AIM5X-5.0/NOPB	TLV61046DBVR	TPS2065CDBVT	TPS7A0228PDBVR
LP2980IM5-3.0/NOPB	TLV61046DBVT	TPS2065CDBVT-2	TPS7A0228PDBVR-LF
LP2980IM5-3.3	TLV61048DBVR	TPS2065DDBVR	TPS7A0228PDBVT

LP2980IM5-3.3/NOPB	TLV61048DBVT	TPS2065DDBVT	TPS7A0230PDBVR
LP2980IM5-5.0/NOPB	TLV61070DBVT	TPS2069CDBVR	TPS7A0230PDBVT
LP2980IM5X-3.0/NOPB	TLV62565DBVR	TPS2069CDBVT	TPS7A0233PDBVR
LP2980IM5X-3.3	TLV62565DBVT	TPS2069DDBVR	TPS7A0233PDBVT
LP2980IM5X-3.3/NOPB	TLV62566DBVR	TPS2069DDBVT	TPS7A0236PDBVR
LP2980IM5X-5.0/NOPB	TLV62566DBVT	TPS22810DBVR	TPS7A0236PDBVT
LP2985AIM5-3.3	TLV62568DBVR	TPS22810DBVT	TPS7A0250PDBVR
LP2985AIM5-3.3/NOPB	TLV62568DBVT	TPS22811LRPWR	TPS7A0312PDBVR
LP2985AIM5-5.0	TLV62569DBVR	TPS22917DBVR	TPS7A0312PDBVT
LP2985AIM5-5.0/NOPB	TLV62569DBVT	TPS22917DBVT	TPS7A0315PDBVR
LP2985AIM5X-3.3/NOPB	TLV70133DBVR	TPS22917LDBVR	TPS7A0315PDBVT
LP2985AIM5X-5.0/NOPB	TLV70133DBVT	TPS22918DBVR	TPS7A0318PDBVR
LP2985IM5-3.3	TLV70212DBVR	TPS22918DBVT	TPS7A0318PDBVT
LP2985IM5-3.3/NOPB	TLV70212DBVT	TPS22997RYZR	TPS7A0320PDBVR
LP2985IM5-5.0	TLV70213DBVR	TPS2513DBVR	TPS7A0320PDBVT
LP2985IM5-5.0/NOPB	TLV70213DBVT	TPS2513DBVT	TPS7A0322PDBVR
LP2985IM5X-3.3/NOPB	TLV70215DBVR	TPS2514DBVR	TPS7A0322PDBVT
LP2985IM5X-3.3/S5001421	TLV70215DBVT	TPS2514DBVT	TPS7A0323PDBVR
LP2985IM5X-5.0	TLV70218DBVR	TPS25221DBVR	TPS7A0323PDBVT
LP2985IM5X-5.0/NOPB	TLV70218DBVT	TPS25221DBVT	TPS7A0325PDBVR
LP3470A263DBVR	TLV70225DBVR	TPS2552DBVR	TPS7A0325PDBVT
LP3470A275DBVR	TLV70225DBVT	TPS2552DBVT	TPS7A0328PDBVR
LP3470A293DBVR	TLV70228DBVR	TPS2552DDBVR	TPS7A0328PDBVT
LP3470A308DBVR	TLV70228DBVT	TPS2552DDBVT	TPS7A0330PDBVR
LP3470A365DBVR	TLV70229DBVR	TPS2553DBVR	TPS7A0330PDBVT
LP3470A400DBVR	TLV70229DBVT	TPS2553DBVR-1	TPS7A0331PDBVR
LP3470A438DBVR	TLV70230DBVR	TPS2553DBVT	TPS7A0331PDBVT
LP3470A463DBVR	TLV70230DBVT	TPS2553DBVT-1	TPS7A0333PDBVR
LP5907MFX-1.2/NOPB	TLV70231DBVR	TPS2553DDBVR	TPS7A0333PDBVT
LP5907MFX-1.5/NOPB	TLV70231DBVT	TPS2553DDBVT	TPS7A0336PDBVR
LP5907MFX-2.5/NOPB	TLV70233DBVR	TPS259814ARPWR	TPS7A0336PDBVT
LP5907MFX-2.8/NOPB	TLV70233DBVT	TPS3840ADL18DBVR	TPS7A0508PDBVR
LP5907MFX-2.9/NOPB	TLV70235DBVR	TPS3840ADL27DBVR	TPS7A0508PDBVT
LP5907MFX-3.0/NOPB	TLV70235DBVT	TPS3840ADL29DBVR	TPS7A0510PDBVR
LP5907MFX-3.1/NOPB	TLV70237DBVR	TPS3840ADL30DBVR	TPS7A0510PDBVT
LP5907MFX-3.2/NOPB	TLV70237DBVT	TPS3840ADL32DBVR	TPS7A0512PDBVR
LP5907MFX-3.3/NOPB	TLV70245DBVR	TPS3840APL20DBVR	TPS7A0512PDBVT
LP5907MFX-4.5/NOPB	TLV70245DBVT	TPS3840APL27DBVR	TPS7A0515PDBVR
LPV821DBVR	TLV702475DBVR	TPS3840APL28DBVR	TPS7A0515PDBVT
LPV821DBVT	TLV702475DBVT	TPS3840APL30DBVR	TPS7A0518PDBVR
LV3842XDBVR	TLV70433DBVR	TPS3840APL40DBVR	TPS7A0518PDBVT
LV3842XDBVT	TLV70433DBVT	TPS3840DL16DBVR	TPS7A0522PDBVR
LV3842XFDBVR	TLV70436DBVR	TPS3840DL17DBVR	TPS7A0522PDBVT
LV3842XFDBVT	TLV70436DBVT	TPS3840DL18DBVR	TPS7A0525PDBVR
MCP6291IDBVR	TLV71209DBVR	TPS3840DL18DBVR-SM	TPS7A0525PDBVT
OPA1677DBVR	TLV71209DBVT	TPS3840DL19DBVR	TPS7A05285PDBVR
OPA1677DBVT	TLV71210DBVR	TPS3840DL20DBVR	TPS7A05285PDBVT
OPA607IDBVR	TLV71210DBVT	TPS3840DL22DBVR	TPS7A0530PDBVR
OPA607IDBVT	TLV71211DBVR	TPS3840DL24DBVR	TPS7A0530PDBVT
OPA990IDBVR	TLV71211DBVT	TPS3840DL25DBVR	TPS7A0531PDBVR
OPA990SIDBVR	TLV74010PDBVR	TPS3840DL27DBVR	TPS7A0531PDBVT
OPA991IDBVR	TLV74018PDBVR	TPS3840DL28DBVR	TPS7A0533PDBVR
OPA991SIDBVR	TLV74033PDBVR	TPS3840DL29DBVR	TPS7A0533PDBVT

OPA992IDBVR	TLV75509PDBVR	TPS3840DL30DBVR	TPS7A2009PDBVR
OPA992SIDBVR	TLV75510PDBVR	TPS3840DL31DBVR	TPS7A2012PDBVR
P840CADLUUDBVR	TLV75511PDBVR	TPS3840DL35DBVR	TPS7A2015PDBVR
P840MADLUUDBVR	TLV75511PDBVT	TPS3840DL40DBVR	TPS7A20185PDBVR
P840MAPH29DBVR	TLV75512PDBVR	TPS3840DL42DBVR	TPS7A2018PDBVR
P840MAPL28DBVRQ1	TLV75515PDBVR	TPS3840DL44DBVR	TPS7A2024PDBVR
P840NADLUUDBVR	TLV75518PDBVR	TPS3840DL45DBVR	TPS7A2025PDBVR
PQ25792DCRQMR	TLV75519PDBVR	TPS3840DL46DBVR	TPS7A20285PDBVR
PSN74AXCH1T45DBVR	TLV75525PDBVR	TPS3840DL49DBVR	TPS7A2028PDBVR
PSN74LXC1T45DBVR	TLV75528PDBVR	TPS3840PH18DBVR	TPS7A2029PDBVR
PTAS2780B0RYAR	TLV75529PDBVR	TPS3840PH19DBVR	TPS7A2030PDBVR
PTLV840CADL11DBVR	TLV75529PDBVT	TPS3840PH27DBVR	TPS7A2031PDBVR
PTLV840CADL40DBVR	TLV75530PDBVR	TPS3840PH30DBVR	TPS7A2032PDBVR
PTLV840CAPL29DBVR	TLV75530PDBVT	TPS3840PH40DBVR	TPS7A2033PDBVR
PTLV840MAPL29DBVR	TLV75533PDBVR	TPS3840PH45DBVR	TPS7A2036PDBVR
PTLV840MAPL30DBVR	TLV75550PDBVT	TPS3840PH49DBVR	TPS7A2042PDBVR
PTLV840NADL35DBVR	TLV75709PDBVR	TPS3840PL16DBVR	TPS7A2045PDBVR
PTLV840NAPL29DBVR	TLV75710PDBVR	TPS3840PL18DBVR	TPS7A2050PDBVR
PTLV8541DBVT	TLV75712PDBVR	TPS3840PL20DBVR	TPS7A2055PDBVR
PTLV9001RIDBVR	TLV75715PDBVR	TPS3840PL25DBVR	TPS7A24125DBVR
PTLV9001SIDBVT	TLV75718PDBVR	TPS3840PL26DBVR	TPS7A2418DBVR
PTLV9061IDBVT	TLV75719PDBVR	TPS3840PL27DBVR	TPS7A2425DBVR
PTPS2001DDBVT	TLV75725PDBVR	TPS3840PL28DBVR	TPS7A2430DBVR
PTPS22918DBVR	TLV75728PDBVR	TPS3840PL29DBVR	TPS7A2433DBVR
PTPS22918DBVT	TLV75729PDBVR	TPS3840PL30DBVR	TPS7A2436DBVR
PTPS22992RXNR	TLV75730DBVR	TPS3840PL31DBVR	TPS7A2450DBVR
PTPS22992RXPR	TLV75730DBVT	TPS3840PL33DBVR	TPS92612DBVR
PTPS22992RXQR	TLV75730PDBVR	TPS3840PL34DBVR	TPSJB4AMPDLJR
PTPS22992SRXNR	TLV75730PDBVT	TPS3840PL40DBVR	TS321LVIDBVR
PTPS22997RYZR	TLV75733PDBVR	TPS3840PL41DBVR	TSV911AIDBVR
PTPS259851RQPR	TLV840CADL11DBVR	TPS3840PL42DBVR	UCC27517ADBVR
PTPS25990ARQPR	TLV840CADL14DBVR	TPS3840PL43DBVR	UCC27517ADBVT
PTPS3840ADL27DBVR	TLV840CADL28DBVR	TPS3840PL45DBVR	UCC27517DBVR
PTPS3840PL40DBVR	TLV840CADL29DBVR	TPS3840PL48DBVR	UCC27517DBVT
PTPS51383RJNR	TLV840CADL40DBVR	TPS51384RJNR	ULC1001DCRQTR
PTPS53830ARW ZR	TLV840CAPL28DBVR	TPS51386RJNR	ULC1001RQTR
PTPS53832ARW ZR	TLV840CAPL29DBVR	TPS51487XRJET	X28661P0RQC
PTPS543320RPYR	TLV840MADL08DBVR	TPS53830ARW ZR	XSN2001075RW ZR
PTPS543820RPYR	TLV840MADL13DBVR	TPS53830ARW ZR	XSN2001075RW ZT
PTPS552872RYQR	TLV840MADL29DBVR	TPS53832ARW ZR	XSN2001076RW ZR
PTPS61288LRQQR	TLV840MADL30DBVR	TPS53832ARW ZR	XSN2001076RW ZT
PTPS61288RQQT	TLV840MADL52DBVR	TPS552872RYQR	XTPS51383RJNR
PTPS7A0236PDBVR	TLV840MAPL30DBVR	TPS552892RYQR	XTPS51488RJER
PTPS7A20185PDBVR	TLV840NADH29DBVR	TPS560430X3FDBVR	XTPS53830RW ZR
PTPS7A2024PDBVR	TLV840NADL20DBVR	TPS560430X3FDBVT	XTPS53831RW ZR
PULC1001RQTR	TLV840NADL29DBVR	TPS560430XDBVR	XTPS53831RW ZT
SN1409057DBVR	TLV840NADL33DBVR	TPS560430XDBVT	XTPS53832RW ZR
SN1512013DBVR	TLV840NADL35DBVR	TPS560430XFDBVR	XTPS55288RPMR
SN1512013DBVT	TLV840NADL46DBVR	TPS560430XFDBVT	XTPS552892RYQR
SN1512017DBVR	TLV840NAPL29DBVR	TPS560430YDBVR	XTPS56C231RNNR
SN1512017DBVT	TLV840NAPL50DBVR	TPS560430YDBVT	XTPS61288RQQR
SN1601022DBVR	TLV8541DBVR	TPS560430YFDBVR	
SN1601022DBVT	TLV8541DBVT	TPS560430YFDBVT	

# 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 TPS53831 RWZR, 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 the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
WW Change Management Team	<a href="mailto:PCN_ww_admin_team@list.ti.com">PCN_ww_admin_team@list.ti.com</a>

### 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 disdaims 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](http://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.