

PCN Number:	20220503001.1		PCN Date:	May 04, 2022	
Title:	Qualification alternate Assembly sites for select devices				
Customer Contact:	PCN Manager	Dept:	Quality Services		
Proposed 1st Ship Date:	Aug 4, 2022	Estimated Sample Availability:	Date provided at sample request		
Change Type:					
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site
<input checked="" 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"/>		<input type="checkbox"/>	Wafer Fab Process
PCN Details					
Description of Change:					
Texas Instruments Incorporated is announcing the qualification of additional assembly sites for the devices in the product affected section below. Construction options are as follows:					
QFN (VQFN/WQFN/WSON/VSON) Build sites					
Assembly Sites	TIEMA, Clark-AT, CDAT, CARZ, UTL1, UTL3, TIM, ASEN				
Mold Compound	422198 SID#1801512111 4208625				
Mount Compound	4207123 SID#1400410104 SID#1400020112 SID#PZ0031 SID#435143 SID#443156 SID#1400410104 SID#PZ0035				
MSL	LEVEL1-260CG, LEVEL2-260CG, LEVEL3-260CG				
LeadFrame Finish	NiPdAu, NiPdAuAg, Sn				
Bond Wire	Cu, Au				
Reason for Change:					
Supply continuity					
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
<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:

Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City
UTL1	NSE	THA	Bangkok
UTL3	UT3	THA	Bangpakong
CARZ	CSZ	CHN	Jiangsu
Clark	QAB	PHL	Angeles City, Pampanga
TIEM	CU6	MYS	Melaka
ASEN	ASN	CHN	Suzhou
TIM	MLA	THA	Kuala Lumpur
CDAT	CDA	CHN	Chengdu

Sample product shipping label (not actual product label)

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)TO: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:

BQ24300DSGR	BQ24738HRGRR	LP5912-1.8DRV T	TPS54060DRCT
BQ24300DSGT	BQ24738HRGRT	LP5912-2.8DRVR	TPS54140ADR CR
BQ24313DSGR	BQ24738RGRR	LP5912-2.8DRV T	TPS54140ADR CT
BQ24313DSGT	BQ24738RGRT	LP5912-3.0DRVR	TPS54160ADR CR
BQ24314DSGR	BQ24770RU YR	LP5912-3.0DRV T	TPS54160ADR CT
BQ24314DSGT	BQ24770RU YT	SN1307054RGRR	TPS54240DR CR
BQ24315DSGR	BQ24773RU YR	SN1307054RGRT	TPS54240DR CT
BQ24315DSGT	BQ24773RU YT	SN2830RU YR	TPS54260DR CR
BQ24316DSGR	BQ24777ARU YR	SN2830RU YT	TPS54260DR CT
BQ24316DSGT	BQ24777ARU YT	SN2833RGRR	TPS62080DSGR
BQ24316DSGTG4	BQ24777RU YR	SN2833RGRT	TPS62080DSGT
BQ24715RGRR	BQ24777RU YT	TLV62080DSGR	TPS62090RGTR
BQ24715RGRT	BQ24781RU YR	TLV62080DSGT	TPS62090RGTT
BQ24717RGRR	BQ24781RU YT	TLV62084DSGR	TPS62091RGTR
BQ24717RGRT	BQ24786RU YR	TLV62084DSGT	TPS62091RGTT
BQ24725ARGRR	BQ24786RU YT	TLV62090RGTR	TPS62092RGTR
BQ24725ARGRT	HPA02196RGRR	TLV62090RGTT	TPS62092RGTT
BQ24728HRGRR	HPA02277RGRR	TLV62095RGTR	TPS62093RGTR
BQ24728HRGRT	LP5912-0.9DRVR	TLV62095RGTT	TPS62093RGTT

BQ24728RGRR	LP5912-0.9DRVT	TPS54040ADR CR	TPS62095RGTR
BQ24728RGRT	LP5912-1.1DRVR	TPS54040ADR CT	TPS62095RGTT
BQ24735FRGRR	LP5912-1.1DRVT	TPS54060ADR CR	TPS62130RGTR
BQ24735FRGRT	LP5912-1.5DRVR	TPS54060ADR CT	TPS62130RGTRF0
BQ24735RGRR	LP5912-1.5DRVT	TPS54060DR CR	TPS62130RGTT
BQ24735RGRT	LP5912-1.8DRVR		



TI Information
Selective Disclosure

QFN Qualification Report

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

	Stress Test	Duration	CDAT TLV75733PDRV	CDAT TPS65992DADRJK	CDAT TLC6983RRF
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0	3/231/0
HAST	Biased HAST 130C/85%RH Or Biased HAST 110C/85%RH Or Temperature Humidity Bias, 85C/85%RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0	3/231/0
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0	3/231/0	3/231/0
UHAST /AC	Unbiased HAST, 130C/85%RH Or Autoclave 121C	96 hours	3/231/0	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0	2/44/0	3/66/0 (ADS5296RGC)
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	3/228/0	3/228/0
MQ	Manufacturability	-	Pass	Pass	Pass

	Stress Test	Duration	Clark-AT LP5912Q1.2DRVQR1	Clark-AT ONET4291VARGP	Clark-AT SH6966ACC0RGC
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0	3/231/0
HAST	Biased HAST 130C/85%RH Or Biased HAST 110C/85%RH Or Temperature Humidity Bias, 85C/85%RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0	3/231/0
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0	3/231/0	3/231/0
UHAST /AC	Unbiased HAST, 130C/85%RH Or Autoclave 121C	96 hours	3/231/0	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	1/22/0	3/66/0	3/66/0
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	3/228/0	3/228/0
MQ	Manufacturability	-	Pass	Pass	Pass

	Stress Test	Duration	ASEN CSD87502Q2	ASEN TPS65988CFRSH	ASEN TPS65126RSH
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0	1/77/0
HAST/ THB	Biased HAST 130C/85%RH Or Biased HAST 110C/85%RH Or Temperature Humidity Bias, 85C/85%RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0	3/231/0
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0 (TIOL1XXDMW)	3/231/0	2/122/0
UHAST /AC	Unbiased HAST, 130C/85%RH Or Autoclave 121C	96 hours	3/231/0	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0 (CSD58911Q2)	3/66/0	1/22/0 (TPS65987DDJRSH)
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	3/228/0	3/228/0
MQ	Manufacturability	-	Pass	Pass	Pass

	Stress Test	Duration	CARZ TLV75733PDRV	CARZ TPD5S330RJK	CARZ UCD9211RHA
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0	3/231/0
HAST	Biased HAST 130C/85%RH Or Biased HAST 110C/85%RH Or Temperature Humidity Bias, 85C/85%RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0	3/231/0 (ADS8548SRGC)
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0	3/231/0	3/231/0
UHA ST /AC	Unbiased HAST, 130C/85%RH Or Autoclave 121C	96 hours	3/231/0	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0 (DS90LV028AQDQF)	3/66/0	3/66/0
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	3/228/0	3/228/0
MQ	Manufacturability	-	Pass	Pass	Pass

	Stress Test	Duration	UTL1 TPS717XXQDRVQ1	UTL1 LM73606QRNPQ1	UTL1 SH6966ADU0RGC
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/125C	500 Cycles Or 700 Cycles	3/231/0	2/154/0	3/231/0
HAST	Biased HAST 130C/85%RH Or Biased HAST 110C/85%RH Or Temperature Humidity Bias, 85C/85%RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0	3/231/0
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0	2/154/0	3/231/0
UHA ST /AC	Unbiased HAST, 130C/85%RH Or Autoclave 121C	96 hours	3/231/0	2/154/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	2/44/0	1/22/0	1/22/0
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	3/228/0	3/228/0
MQ	Manufacturability	-	Pass	Pass	Pass

	Stress Test	Duration	UTL3 TCAN1042DRBQ1 TCAN1042HVDREBQ1 TCAN1051VDRBQ1	UTL3 TPS22990DML	UTL3 CC2541F256RHA
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0	3/231/0
HAST	Biased HAST 130C/85%RH Or Biased HAST 110C/85%RH Or Temperature Humidity Bias, 85C/85%RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0	3/230/0
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0	3/231/0	3/231/0
UHAST /AC	Unbiased HAST, 130C/85%RH Or Autoclave 121C	96 hours	3/231/0	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	1/22/0	3/66/0	3/66/0
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	Pass	3/228/0
MQ	Manufacturability	-	Pass	Pass	Pass
	Stress Test	Duration	TIEM AT LDC1612QDNTRQ1	TIEM AT LDC1614QRGHRQ1	TIEM AT DS125BR401Q4DK
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0	3/231/0
HAST	Biased HAST 130C/85%RH Or Biased HAST 110C/85%RH Or Temperature Humidity Bias, 85C/85%RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0	3/231/0 (DP83848LFQSQE)
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	1/77/0	1/45/0	3/231/0
UHAST /AC	Unbiased HAST, 130C/85%RH Or Autoclave 121C	96 hours	3/231/0	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0	3/66/0 (LMK00334RTVTQ1)	1/22/0
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	3/228/0	3/228/0
MQ	Manufacturability	-	Pass	Pass	Pass

	Stress Test	Duration	TIM PCOBT100RLQ	TIM CDCM1804RGE	TIM MSP430FR5739IRHA
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0	3/231/0
HAST	Biased HAST 130C/85%RH Or Biased HAST 110C/85%RH Or Temperature Humidity Bias, 85C/85%RH	96 hours Or 264 hours Or 1000 hours	3/231/0 (TPS62170DSG)	3/231/0	3/231/0
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/135/0	3/231/0	3/231/0
UHAST /AC	Unbiased HAST, 130C/85%RH Or Autoclave 121C	96 hours	3/231/0	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0 (TPS62170DSG)	3/66/0 (TSC2200RHB)	3/66/0 (SN75DP128ARTQ)
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	3/228/0	3/228/0
MQ	Manufacturability	-	Pass	Pass	Pass

TLV75733PDRV, LDC1614QRGHRQ1, LDC1612QDNTRQ1, CSD87502Q2, PCOBT100RLQ, TCAN1042DRBQ1, TCAN1042HVDRBQ1, TCAN1051VDRBQ1, TPS717XXQDRVQ1, LP5912Q1.2DRVQ1 are qualified at L1-260C MSL rating.
TPS22990DML, TPD5S330RJK, ONET4291VARGP, CDCM1804RGE, TPS65992DADRJK, DS125BR401Q4DK, TPS62170DSG, LM73606QRNPQ1, TIOL1XXDMW are qualified at L2-260C MSL rating.
ADS8548SRGC, SH6966ACC0RGC, SH6966ADU0RGC, MSP430FR5739IRHA, UCD9211RHA, TPS65126RSH, TPS65988CFRSH, CC2541F256RHA, TLC6983RRF, DP83848LFQSQE are qualified at L3-260C MSL rating

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, and HTSL, as applicable
- The following are equivalent HTSL options based on activation energy of 0.7eV: 150C/1k Hours, and 170C/420 Hours

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 contacts shown below or your local Field Sales Representative.

Location	E-Mail
WW Change Management Team	PCN_ww_admin_team@list.ti.com

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