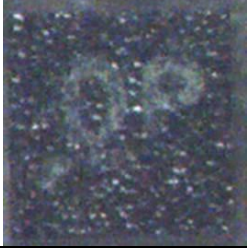



PCN Number:	20221010000.1	PCN Date:	October 10, 2022
Title:	Qualify additional Assembly sites for select QFN devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Jan 8, 2023	Sample Requests accepted until:	Nov 10, 2022*
*Sample requests received after Nov 9, 2022 will not be supported.			
Change Type:			
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input checked="" type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
		<input type="checkbox"/>	Wafer Bump Site
		<input type="checkbox"/>	Wafer Bump Material
		<input type="checkbox"/>	Wafer Bump Process
		<input type="checkbox"/>	Wafer Fab Site
		<input type="checkbox"/>	Wafer Fab Materials
		<input type="checkbox"/>	Wafer Fab Process
PCN Details			
Description of Change:			
Texas Instruments Incorporated is announcing the qualification of additional Assembly sites for devices listed below in the product affected section. Construction information and all assembly sites are as follows:			
X2QFN/X2SON Build sites			
Assembly Sites	ASEN, CARZ, CDAT, UTL1, CIRTEK, HNA, JCETJY		
Mold Compound	SID#1800026141 SID#1800900161 SID#1801512111 SID#443752 SID#CZ0138		
Mount Compound	SID#1500094113 SID#1500131111-1 SID#1500257101 SID#446422 4221460 4221461 4226215 4207123 SID#PZ0076 S#120402001600		
LeadFrame Finish	NIPDAU, Matte Sn		
Bond Wire (mil)	Cu (0.7, 0.8), Au (0.6, 0.7,0.8,1.0)		
Additionally, devices in Group 2 Device list will have a pin one (L shape to dot) and device ID symbolization change moving from dual to single character device ID as follows:			

What	Current	New
Device ID/ Pin one designator		

Upon expiration of this PCN, TI will combine lead free solutions in a single [standard part number](#), for example; [TLV803EB33VDBZR](#) – can ship with both Matte Sn and NiPdAu. When available customers may specify NiPdAu finish by ordering the part with the G4 suffix, e.g. **TLV803EB33VDBZR.G4**.

Reason for Change:

Continuity of Supply

Anticipated impact on Fit, Form, 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		
HNA	Assembly Site Origin (22L)	ASO: HNT
ASEN	Assembly Site Origin (22L)	ASO: ASN
CARZ	Assembly Site Origin (22L)	ASO: CSZ
UTL1	Assembly Site Origin (22L)	ASO: NSE
CDAT	Assembly Site Origin (22L)	ASO: CDA
CIRTEK	Assembly Site Origin (22L)	ASO: CTK
JCETJY	Assembly Site Origin (22L)	ASO: JC8

Sample product shipping label (not actual product label)

E4/G4: NiPdAu
 E3/G3: Matte Sn



(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



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

Product Affected:

Group 1 Device List:

SN74AUP1G04DSFR	TLV707135DQNT	TLV71712PDQNR3	TLV74315PDQNR
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SN74AUP1G17DSFR	TLV70715PDQNR	TLV71712PDQNT	TLV74318PDQNR
SN74AUP1T97DSF2	TLV70715PDQNT	TLV71713PDQNR	TLV74318PDQNR3
SN74AUP1G00DSF2	TLV70717DQNR	TLV71713PDQNT	TLV74325PDQNR
SN74AUP1G00DSFR	TLV70717DQNT	TLV71715PDQNR	TLV743285PDQNR
SN74AUP1G02DSFR	TLV707185DQNR	TLV71715PDQNT	TLV74328PDQNR
SN74AUP1G04DSF2	TLV707185DQNR1	TLV71721PDQNR	TLV74328PDQNR1
SN74AUP1G06DSF2	TLV707185DQNT	TLV71721PDQNT	TLV74330PDQNR
SN74AUP1G06DSFR	TLV707185PDQNR	TLV71725PDQNR	TLV74333PDQNR
SN74AUP1G07DSF2	TLV707185PDQNT	TLV71725PDQNT	TPS3831A09DQNR
SN74AUP1G07DSFR	TLV70718DQNR	TLV717285PDQNR	TPS3831A09DQNT
SN74AUP1G08DSF2	TLV70718DQNT	TLV717285PDQNT	TPS3831E16DQNR
SN74AUP1G08DSFR	TLV70725DQNR	TLV71728PDQNR	TPS3831E16DQNT
SN74AUP1G125DSFR	TLV70725DQNT	TLV71728PDQNR3	TPS3831G12DQNR
SN74AUP1G14DSFR	TLV70726DQNR	TLV71728PDQNT	TPS3831G12DQNT
SN74AUP1G240DSFR	TLV70726DQNT	TLV71730PDQNR	TPS3831G18DQNR
SN74AUP1G32DSF2	TLV70726PDQNR	TLV71730PDQNT	TPS3831G18DQNT
SN74AUP1G34DSFR	TLV70726PDQNT	TLV71736PDQNR	TPS3831G33DQNR
SN74AUP1G57DSFR	TLV70728PDQNR	TLV71736PDQNT	TPS3831G33DQNT
SN74AUP1G58DSFR	TLV70728PDQNT	TLV73310PDQNR	TPS3831K33DQNR
SN74AUP1G79DSFR	TLV70729DQNR	TLV73310PDQNT	TPS3831K33DQNT
SN74AUP1G80DSFR	TLV70729DQNT	TLV73311PDQNR	TPS3831K50DQNR
SN74AUP1G97DSFR	TLV70729PDQNR	TLV73311PDQNT	TPS3831K50DQNT
SN74AUP1G98DSFR	TLV70729PDQNT	TLV73312PDQNR	TPS3831L30DQNR
SN74AUP1T34DSFR	TLV70730DQNR	TLV73312PDQNR3	TPS3831L30DQNT
SN74AUP1T57DSFR	TLV70730DQNT	TLV73312PDQNT	TPS3839A09DQNR
SN74AUP1T58DSFR	TLV70730PDQNR	TLV73315PDQNR	TPS3839A09DQNT
SN74AUP1T97DSFR	TLV70730PDQNT	TLV73315PDQNR3	TPS3839E16DQNR
SN74AUP1T98DSFR	TLV70731DQNR	TLV73315PDQNT	TPS3839E16DQNT
SN74AUP2G04DSFR	TLV70731DQNT	TLV73318PDQNR	TPS3839G12DQNR
SN74AUP2G06DSFR	TLV707335DQNR	TLV73318PDQNR3	TPS3839G12DQNT
SN74AUP2G14DSF2	TLV707335DQNT	TLV73318PDQNT	TPS3839G18DQNR
SN74AUP2G14DSFR	TLV70733DQNR	TLV73325PDQNR	TPS3839G18DQNT
SN74AUP2G17DSFR	TLV70733DQNR1	TLV73325PDQNT	TPS3839G33DQNR
SN74AUP2G34DSFR	TLV70733DQNT	TLV733285PDQNR	TPS3839G33DQNT
SN74LVC1G3157DSFR	TLV70733PDQNR	TLV733285PDQNT	TPS3839K33DQNR
SN74LVC1G66DSF2	TLV70733PDQNT	TLV73328PDQNR	TPS3839K33DQNT
SN74LVC1G66DSFR	TLV70734DQNR	TLV73328PDQNR3	TPS3839K50DQNR
SN74LVC1GU04DSFR	TLV70734DQNT	TLV73328PDQNT	TPS3839K50DQNT
LP5907SNX-1.2/NOPB	TLV70734PDQNR	TLV73330PDQNR	TPS3839L30DQNR
LP5907SNX-1.8/NOPB	TLV70734PDQNT	TLV73330PDQNT	TPS3839L30DQNT
LP5907SNX-1.825	TLV70736DQNR	TLV73333PDQNR	TPS7A0508PDQNR
LP5907SNX-1.9	TLV70736DQNT	TLV73333PDQNT	TPS7A0508PDQNT
LP5907SNX-2.2/NOPB	TLV71310PDQNR	TLV74110PDQNR	TPS7A0510PDQNR
LP5907SNX-2.5/NOPB	TLV71310PDQNT	TLV74111PDQNR	TPS7A0510PDQNT
LP5907SNX-2.7/NOPB	TLV71312PDQNR	TLV74112PDQNR	TPS7A0511PDQNR

LP5907SNX-2.75	TLV71312PDQNT	TLV74115PDQNR	TPS7A0512PDQNR
LP5907SNX-2.8/NOPB	TLV71315PDQNR	TLV74118PDQNR	TPS7A0512PDQNT
LP5907SNX-2.85/NOPB	TLV71315PDQNT	TLV74125PDQNR	TPS7A0515PDQNR
LP5907SNX-2.9/NOPB	TLV713185PDQNR	TLV741285PDQNR	TPS7A0515PDQNT
LP5907SNX-3.0/NOPB	TLV713185PDQNT	TLV74128PDQNR	TPS7A0518PDQNR
LP5907SNX-3.1/NOPB	TLV71318PDQNR	TLV74130PDQNR	TPS7A0518PDQNT
LP5907SNX-3.2/NOPB	TLV71318PDQNT	TLV74133PDQNR	TPS7A0520PDQNR
LP5907SNX-3.3/NOPB	TLV71320DQNR	TLV74211PDQNR	TPS7A0525PDQNR
LP5907SNX-4.0/NOPB	TLV71320DQNT	TLV74212PDQNR	TPS7A0525PDQNR3
LP5907SNX-4.5/NOPB	TLV71325PDQNR	TLV74215PDQNR	TPS7A0525PDQNT
TLV707085DQNR	TLV71325PDQNT	TLV74218PDQNR	TPS7A05285PDQNR
TLV707085DQNT	TLV713285PDQNR	TLV74225PDQNR	TPS7A05285PDQNT
TLV70710DQNR	TLV713285PDQNT	TLV74227PDQNR	TPS7A0528PDQNR
TLV70710DQNT	TLV71328PDQNR	TLV74228PDQNR	TPS7A0528PDQNT
TLV70710PDQNR	TLV71328PDQNT	TLV74229PDQNR	TPS7A0530PDQNR
TLV70710PDQNT	TLV71330PDQNR	TLV74230PDQNR	TPS7A0530PDQNT
TLV707115DQNR	TLV71330PDQNT	TLV74233PDQNR	TPS7A0531PDQNR
TLV707115DQNT	TLV71333PDQNR	TLV74310PDQNR	TPS7A0533PDQNR
TLV70711PDQNR	TLV71333PDQNT	TLV74311PDQNR	TPS7A0533PDQNR3
TLV70711PDQNT	TLV71712PDQNR	TLV74312PDQNR	TPS7A0533PDQNT
TLV707135DQNR			

Group 2 Device List:

SN74AUP1G00DPWR	SN74AUP1G125DPWR	74LVC1G125DPWR-LF	SN74AUP1G240DPWR
SN74AUP1G04DPWR	SN74AUP1G126DPWR	SN74AUP1G02DPWR	SN74AUP1G79DPWR
SN74AUP1G06DPWR	SN74AUP1G32DPWR	SN74AUP1G14DPWR	SN74AUP1G80DPWR
SN74AUP1G07DPWR	SN74AUP1G34DPWR	SN74AUP1G17DPWR	SN74LVC1GU04DPWR
SN74AUP1G08DPWR	2N7001TDPWR		



**TI Information
Selective Disclosure**

X2QFN/X2SON Qualification Report

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

	Stress Test	Duration	CDAT TPL0102-100RUC	CDAT TLV70728PDQN
TC	Temperature Cycling - 65/150C Or Temperature Cycling - 55/125C	500 Cycles Or 700 Cycles	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

	Stress Test	Duration	CDAT TPL0102-100RUC	CDAT TLV70728PDQN
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0	3/231/0
UHAST/AC	Unbiased HAST, 130C/85% RH Or Autoclave 121C	96 hours	3/231/0	3/229/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0	3/66/0
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	3/228/0
MQ	Manufacturability	-	Pass	Pass

	Stress Test	Duration	ASEN BQ298000RUG	ASEN SN74AXC2T45DTM
TC	Temperature Cycling - 65/150C Or Temperature Cycling - 55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0
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
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0	3/231/0
UHAST/AC	Unbiased HAST, 130C/85% RH Or Autoclave 121C	96 hours	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0	3/66/0
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	3/228/0
MQ	Manufacturability	-	Pass	Pass

	Stress Test	Duration	CARZ TPS3700RUG	CARZ TPD4E101DPW
TC	Temperature Cycling - 65/150C Or Temperature Cycling - 55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0

	Stress Test	Duration	CARZ TPS3700RUG	CARZ TPD4E101DPW
HAS T	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
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0 (TLV9002SIRU G)	3/231/0
UHA ST /AC	Unbiased HAST, 130C/85% RH Or Autoclave 121C	96 hours	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0	3/66/0
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	3/228/0
MQ	Manufacturability	-	Pass	Pass

	Stress Test	Duration	UTL1 TLV342IRUG	UTL1 DRV5032DUDMR/ DRV5032FADMR
TC	Temperature Cycling - 65/150C Or Temperature Cycling - 55/125C	500 Cycles Or 700 Cycles	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	3/225/0	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
UHAS T/AC	Unbiased HAST, 130C/85% RH Or Autoclave 121C	96 hours	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0 (TUSB211QRW B)	3/66/0
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0
WBS	Wire Bond Shear	Wires	3/228/0	3/228/0
MQ	Manufacturability	-	Pass	Pass

SN74AXC2T45DTM, DRV5032DUDMR, DRV5032FADMR, TLV70728PDQN, TPD4E101DPW, TPL0102-100RUC, BQ298000RUG, TPS3700RUG, and TLV342IRUGR are qualified at L1-260C 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

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