




PCN Number:	20230406002.1		PCN Date:	April 11, 2023												
Title:	Qualification of ASEN as Additional Assembly Site for Select Package Devices															
Customer Contact:	PCN Manager	Dept:	Quality Services													
Proposed 1st Ship Date:	Jul 11, 2023	Sample requests accepted until:	May 11, 2023*													
*Sample requests received after "May 11, 2023" will not be supported.																
Change Type:																
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>												
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>												
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>												
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>												
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>												
PCN Details																
Description of Change:																
Texas Instruments Incorporated is announcing the qualification of ASEN as Additional Assembly Site for select devices listed in the "Product Affected" Section. Current assembly sites and Material differences are as follows.																
<table border="1"> <thead> <tr> <th>Assembly Site</th> <th>Assembly Site Origin</th> <th>Assembly Country Code</th> <th>Assembly Site City</th> </tr> </thead> <tbody> <tr> <td>UTAC</td> <td>NSE</td> <td>THA</td> <td>Bangkok</td> </tr> <tr> <td>ASEN</td> <td>ASN</td> <td>CHN</td> <td>Suzhou</td> </tr> </tbody> </table>					Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City	UTAC	NSE	THA	Bangkok	ASEN	ASN	CHN	Suzhou
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Material Differences:																
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Mold Compound	CZ0138	1801512111														
Reason for Change:																
Continuity of supply.																
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):																
None																
Impact on Environmental Ratings:																
<p>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.</p> <table border="1"> <thead> <tr> <th>RoHS</th> <th>REACH</th> <th>Green Status</th> <th>IEC 62474</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> </tr> </tbody> </table>					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				
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Changes to product identification resulting from this PCN:																
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ASEN	Assembly Site Origin (22L)	ASO: ASN														
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)T0:1750	 	(1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY (1T) 7523483SI2 (P) (2P) REV: (V) 0033317 (20L) CS0: SHE (21L) CCO:USA (22L) AS0: MLA (23L) ACO: MYS	
Product Affected:			
TPS3420ADDRYR	TPS3420DDRYR	TPS3420DDRYT	TS3A4751RUCR

Qualification Report

Approved Date 05-April-2023

Product Attributes

Attributes	Qual Device: TPS3420DDRYR	Qual Device: TS3A4751RUCR
Assembly Site	ASEN	ASEN
Package Family	USON	X2QFN
Package Designator	DRY	RUC
Wafer Fab Supplier	MH8	FR-BIP-1
Flammability Rating	UL 94 V-0	UL 94 V-0

Qual Device TPS3420DDRYR is qualified at MSL1-260C

Qual Device TS3A4751RUCR is qualified at MSL1-260C

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TPS3420DDRYR	Qual Device: TS3A4751RUCR
PC	Preconditioning	Level 1 - 260C	3/693/0	3/231/0
UFAST	Unbiased HAST, 130C	96 Hours	3/231/0	---
SAM	Post Unbiased HAST SAM	Devices	3/15/0	---
BHAST	Biased HAST, 130C	96 Hours	3/231/0	---
SAM	Post Biased HAST SAM	Devices	3/15/0	---
TC	Temperature Cycle, -55C/125C	700 Cycles	3/231/0	---
SAM	Post Temperature Cycle SAM	Devices	3/15/0	---
TC	Temperature Cycle, -65C/150C	500 Cycles	---	3/231/0
SD	Solderability, Pb-Free	155C Dry Bake	3/66/0	3/66/0
SD	Solderability, Pb	155C Dry Bake	---	3/66/0
MQ	Manufacturability (Assembly)	(per mfg site requirements)	3/PASS	3/PASS
DSS	Die Shear Strength	Die	3/30/0	3/30/0
BBS	Ball Bond Shear	Ball Bonds	3/228/0	3/228/0
WBP	Wire Bond Pull	Wires	3/228/0	3/228/0
PD	Physical Dimensions	(per pkg drawing requirements)	3/60/0	3/60/0
CHAR	Electrical Characterization	(per datasheet specifications)	1/30/0	1/30/0
MSL	Moisture Sensitivity Level	Level 1 - 260C	3/36/0	---
YLD	FTY and Bin Summary	Lots	3/PASS	3/PASS

Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

The following are equivalent Temperature Cycle options per JESD47: -55C/125C/700 Cycles and -65C/150C/500 Cycles
Green/Pb-free Status: Qualified Pb-Free (SMT) and Green
Quality and Environmental data is available at TI's external Web site: <http://www.ti.com>

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 PCN Team	PCN_ww_admin_team@list.ti.com

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