

PCN Number: 20140702000 **PCN Date:** 07/07/2014

Title: Qualification of Carsem as an alternate Assembly/Test site for the TPS25200DRVR/T

Customer Contact: [PCN Manager](#) **Phone:** +1(214)480-6037 **Dept:** Quality Services

Proposed 1st Ship Date: 10/07/2014 **Estimated Sample Availability:** Date provided upon request

Change Type:

<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Assembly Materials
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification
<input checked="" type="checkbox"/>	Test Site	<input 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
		<input type="checkbox"/>	Part number change		

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of Carsem Suzhou as an additional Assembly and test site for the TPS25200DRVR/T. Material differences are noted below.

	TI Clark AT	Carsem
Mount Compound	4207768	435143

Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.

Reason for Change:

Continuity of Supply

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

None

Changes to product identification resulting from this PCN:

Assembly Site		
TI Clark	Assembly Site Origin (22L)	ASO: QAB
Carsem	Assembly Site Origin (22L)	ASO: CSZ

Sample product shipping label (not actual product label)

TEXAS INSTRUMENTS
 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

(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

Topside Device marking:
 Assembly site code for QAB= I
 Assembly site code for CSZ= F

Product Affected			
TPS25200DRVR		TPS25200DRVT	
Qualification Data – Approved June, 2014			
This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.			
Qualification Vehicle : TPS25200DRV (MSL 2-260C)			
Package Construction Details			
Assembly Site:	CSZ	Mount Compound:	SID#435143
# Pins-Designator, Family:	6-DRV, WSON	Mold Compound:	SID#441086
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	2.0 Mil Dia., Cu
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results			
Reliability Test	Conditions	Sample Size/Fail	
High Temp Operating Life	150C (300 Hrs)	77/0	
Electrical Characterization	Per Datasheet	Pass	
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	
ESD CDM	+/- 500V	3/0	
ESD HBM	+/- 500V, 1000V	3/0	
Latch-up	Per JESD78	6/0	
Notes ** - Preconditioning sequence: Level 1-260C.			

Qualification Data - Approved January, 2013				
This qualification has been developed for the validation of this change. The qualification data will validate that the proposed change meets the applicable released technical specifications.				
Reference Qualification Data: SN1010017RSAR2 (MSL2-260C)				
Package Construction Details				
Assembly Site:	CSZ	Mount Compound:	SID#435143	
# Pins-Designator, Family:	16-RSA, VQFN	Mold Compound:	SID#441086	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire (Mils):	2.0 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size / Fail		
		Lot#1	Lot#2	Lot#3
Electrical Characterization	Side by side	Pass	-	-
**High Temp. Storage Bake	170C (168, 420 hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Notes: ** Tests require preconditioning sequence: MSL2-260C				

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
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com