



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**PCN# 20131024001**

**Qualification of TI Clark as additional Assembly site for selected VSON packaged products**

**Change Notification / Sample Request**

**Date:** 10/28/2013  
**To:** MOUSER PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager ([PCN\\_ww\\_admin\\_team@list.ti.com](mailto:PCN_ww_admin_team@list.ti.com)).

Sincerely,

PCN Team  
SC Business Services  
Phone: +1(214) 480-6037  
Fax: +1(214) 480-6659

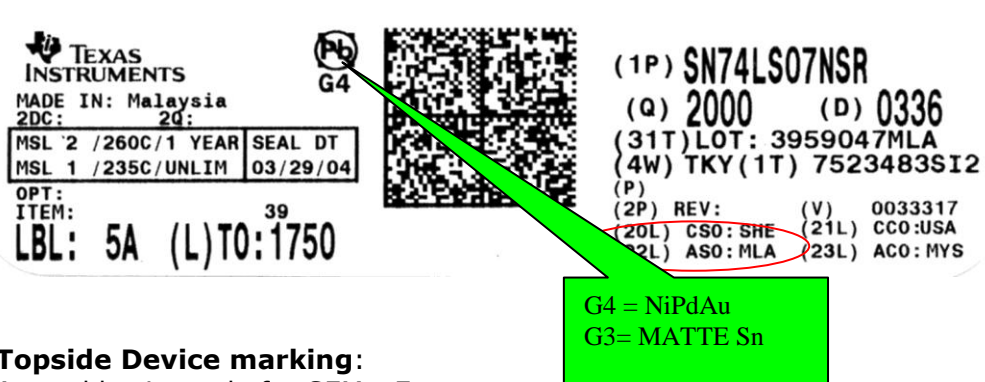
**20131024001**  
**Attachment: 1**

**Products Affected:**

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
CSD16556Q5B	null
CSD17556Q5B	null
CSD18502Q5B	null
CSD18532NQ5B	null
CSD18532Q5B	null

Technical details of this Product Change follow on the next page(s).

<b>PCN Number:</b>	20131024001			<b>PCN Date:</b>	10/28/2013
<b>Title:</b>	Qualification of TI Clark as additional Assembly site for selected VSON packaged products				
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Phone:</b>	+1(214)480-6037		<b>Dept:</b> Quality Services
<b>Proposed 1<sup>st</sup> Ship Date:</b>	01/28/2014	<b>Estimated Sample Availability:</b>	11/30/2013		
<b>Change Type:</b>					
<input checked="" type="checkbox"/>	Assembly Site			<input checked="" type="checkbox"/>	Assembly Materials
<b>PCN Details</b>					
<b>Description of Change:</b>					
Qualification of TI Clark (Philippines) as an additional assembly site for below listed devices in the VSON package family. Material differences are noted below:					
		<b>SEM</b>		<b>TI Clark</b>	
<b>Leadframe</b>		201207/201221		<b>4218176</b>	
<b>Mold Compound</b>		202828		<b>4220838</b>	
<b>Mount Solder</b>		200757/202954		<b>4208625</b>	
<b>Lead Finish</b>		Matte Sn		<b>NiPdAu</b>	
Upon expiry of this PCN, TI will combine lead free solutions in a single <u>standard part number</u> , for example; <u>CSD18532Q5B</u> – can ship with both Matte Sn and NiPdAu.					
<b>Reason for Change:</b>					
Business Continuity					
<b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>					
None					
<b>Changes to product identification resulting from this PCN:</b>					
Assembly Site					
PSI Technologies (SEM)		Assembly Site Origin (22L)		ASO: PAC	
<a href="#">TI Clark</a>		Assembly Site Origin (22L)		ASO: <a href="#">QAB</a>	
Sample product shipping label (not actual product label)					
 <p> <b>TEXAS INSTRUMENTS</b>  MADE IN: Malaysia  2DC: 20:  MSL 2 /260C/1 YEAR SEAL DT  MSL 1 /235C/UNLIM 03/29/04  OPT:  ITEM: 39  <b>LBL: 5A (L)T0:1750</b>  <b>G4</b>  (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  <b>G4 = NiPdAu</b>  <b>G3 = MATTE Sn</b> </p>					
<b>Topside Device marking:</b>					
Assembly site code for SEM = E					
Assembly site code for TI Clark = I					

Product Affected:			
CSD16556Q5B	CSD18502Q5B	CSD18532NQ5B	CSD18532Q5B
CSD17556Q5B			

### Qualification Data

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

#### Qual Vehicle: CSD18532Q5B

##### Package Construction Details

Assembly Site:	TI Clark	Mold Compound:	4208625
# Pins-Designator, Family:	8, DNK	Mount Solder:	4220838
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	Au, 2.0 mils

Qualification: ☐ Plan ☒ Test Results

Reliability Test	Conditions	Sample Size/Fail		
		Lot# 1	Lot# 2	Lot# 3
HTRB	150°C/80% Rated Vds (1000 Hrs)	77/0	77/0	77/0
HTGB	150°C/80% Rated Vgs (1000 Hrs)	77/0	77/0	77/0
**THB	85°C/85%R.H./80% Rated Vds (1000 Hrs)	77/0	77/0	77/0
**Autoclave	121C/100% RH (96 Hrs)	77/0	77/0	77/0
Intermittent Op Life	Delta Tj=100°C, 2 min on/2 min off (10K Cy)	77/0	77/0	77/0
**Temp Cycle	-65°C to 150°C (500 Cy)	77/0	77/0	77/0

Notes \*\* - Preconditioning sequence: Level 1-260C.

### Qualification Data

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

#### Qual Vehicle: CSD18502Q5B

##### Package Construction Details

Assembly Site:	TI Clark	Mold Compound:	4208625
# Pins-Designator, Family:	8, DNK	Mount Solder:	4220838
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	Au, 2.0 mils

Qualification: ☐ Plan ☒ Test Results

Reliability Test	Conditions	Sample Size/Fail		
		Lot# 1	Lot# 2	Lot# 3
HTRB	150°C/80% Rated Vds (1000 Hrs)	77/0	77/0	77/0
HTGB	150°C/80% Rated Vgs (1000 Hrs)	77/0	77/0	77/0
**THB	85°C/85%R.H./80% Rated Vds (1000 Hrs)	77/0	77/0	77/0

Notes \*\* - Preconditioning sequence: Level 1-260C.

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	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>