



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20121203003
Qualification of ASE Shanghai as Additional Assembly
and Test Site for PCA9515BDGKR device
Change Notification / Sample Request

Date: 12/5/2012
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).

Sincerely,

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

20121203003
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.

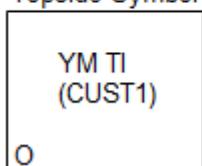
DEVICE	CUSTOMER PART NUMBER
PCA9515BDGKR	null

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

PCN Number:	20121203003			PCN Date:	12/05/2012										
Title:	Qualification of ASE Shanghai as Additional Assembly and Test Site for PCA9515BDGKR device														
Customer Contact:	PCN Manager	Phone:	+1(214)480-6037		Dept:	Quality Services									
*Proposed 1st Ship Date:		03/05/2013	Estimated Sample Availability:		Date Provided at Sample 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											
PCN Details															
Description of Change:															
Qualification of ASE Shanghai as Additional Assembly and Test Site for PCA9515BDGKR device. Material differences are shown in the following table:															
Material	NS2	ASESH													
Mount Compound	PZ0013	EY1000063													
Mold Compound	CZ0094	EN2000515													
Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.															
Reason for Change:															
Continuity of supply.															
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):															
None															
Changes to product identification resulting from this PCN:															
<table border="1"> <tr> <td colspan="3">Assembly Site</td> </tr> <tr> <td>UTAC 2 Thailand</td> <td>Assembly Site Origin (22L)</td> <td>ASO: NS2</td> </tr> <tr> <td>ASE Shanghai</td> <td>Assembly Site Origin (22L)</td> <td>ASO: ASH</td> </tr> </table>							Assembly Site			UTAC 2 Thailand	Assembly Site Origin (22L)	ASO: NS2	ASE Shanghai	Assembly Site Origin (22L)	ASO: ASH
Assembly Site															
UTAC 2 Thailand	Assembly Site Origin (22L)	ASO: NS2													
ASE Shanghai	Assembly Site Origin (22L)	ASO: ASH													
Sample product shipping label (not actual product label)															
 TEXAS INSTRUMENTS MADE IN: Malaysia 2004 2DC: 2004 MSL 2 / 260C / 1 YEAR SEAL DT MSL 1 / 235C / UNLIM 03/29/04 OPT: 39 ITEM: 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												

Device Marking

Topside Symbol



TI = TI LETTERS

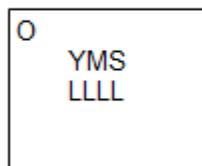
YM = YEAR MONTH DATE CODE

LLLL = ASSEMBLY LOT CODE

S = ASSEMBLY SITE CODE

O = PIN 1 INDICATOR

Backside Symbol



ASSEMBLY SITE CODES: NS2 =B, ASE Shanghai = A

Product Affected:

PCA9515BDGKR

Qualification Data: Approved 04/08/2010

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.

Qual Vehicle 1: PGA308AIDGS (MSL 1-260C)

Package Construction Details

Assembly Site:	ASE Shanghai	Mold Compound:	EN2000515
# Pins-Designator, Family:	10-DGS, VSSOP	Mount Compound:	EY1000063
Lead frame (Finish, Base):	NiPdAu-Ag, Cu	Bond Wire:	1.0 Mil Dia., Au

Qualification: Plan Test Results

Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
**Life test	150C (300 Hrs)	77/0	77/0	77/0
**High Temp. Storage Bake	170C (420hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 15psi (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Solderability	Steam age, 8 hrs	22/0	22/0	22/0
Lead Finish Adhesion	15 leads, min. 3 units	15/0	15/0	15/0
Physical Dimensions	(per mechanical drawing)	5/0	5/0	5/0
Flammability	Method A - UL94-0	5/0	5/0	5/0
Flammability	Method B - IEC 695-2-2	5/0	5/0	5/0
Flammability	Method C - UL 1694	5/0	5/0	5/0
Salt Atmosphere	24 Hrs	22/0	22/0	22/0
Manufacturability (Assembly)	(per mfg. Site specification)	PASS	PASS	PASS
X-ray	(top side only)	5/0	5/0	5/0
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	12/0	12/0

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

Qual Vehicle # 2: THS4304DGK (MSL1-260C)
Package Construction Details

Assembly Site:	ASE Shanghai	Mold Compound:	EN2000515
# Pins-Designator, Family:	8-DGK, VSSOP	Mount Compound:	EY1000063
Lead frame (Finish, Base):	NiPdAu-Ag, Cu	Bond Wire:	1.0 Mil Dia., Au

Qualification: Plan Test Results

Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
**Life test	155C (240 Hrs)	77/0	77/0	77/0
**High Temp. Storage Bake	170C (420hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 15psi (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Solderability	Steam age, 8 hrs	22/0	22/0	22/0
Lead Fatigue	22 leads, min. 3 units	22/0	22/0	22/0
Lead Pull	22 leads, min. 3 units	22/0	22/0	22/0
Lead Finish Adhesion	15 leads, min. 3 units	15/0	15/0	15/0
Physical Dimensions	(per mechanical drawing)	5/0	5/0	5/0
Salt Atmosphere	24 Hrs	22/0	22/0	22/0
Manufacturability (Assembly)	(per mfg. Site specification)	PASS	PASS	PASS
X-ray	(top side only)	5/0	5/0	5/0
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	12/0	12/0

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

Qual Vehicle # 3: TLV2545IDGK (MSL1-260C)
Package Construction Details

Assembly Site:	ASE Shanghai	Mold Compound:	EN2000515
# Pins-Designator, Family:	8-DGK, VSSOP	Mount Compound:	EY1000063
Lead frame (Finish, Base):	NiPdAu-Ag, Cu	Bond Wire:	1.0 Mil Dia., Au

Qualification: Plan Test Results

Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
**High Temp. Storage Bake	170C (420hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 15psi (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Solderability	Steam age, 8 hrs	22/0	22/0	22/0
Lead Fatigue	22 leads, min. 3 units	22/0	22/0	22/0
Lead Pull	22 leads, min. 3 units	22/0	22/0	22/0
Lead Finish Adhesion	15 leads, min. 3 units	15/0	15/0	15/0
Salt Atmosphere	24 Hrs	22/0	22/0	22/0
Manufacturability (Assembly)	(per mfg. Site specification)	PASS	PASS	PASS
X-ray	(top side only)	5/0	5/0	5/0
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	12/0	12/0

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

Qual Vehicle # 4: TPS62040DGQ (MSL1-260C)				
Package Construction Details				
Assembly Site:	ASE Shanghai	Mold Compound:	EN2000515	
# Pins-Designator, Family:	10-DGQ, VSSOP	Mount Compound:	EY1000063	
Lead frame (Finish, Base):	NiPdAu-Ag, Cu	Bond Wire:	1.0 Mil Dia., Au	
Qualification:	<input type="checkbox"/> Plan	<input checked="" type="checkbox"/> Test Results		
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
**High Temp. Storage Bake	170C (420hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 15psi (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Solderability	Steam age, 8 hrs	22/0	22/0	22/0
Lead Fatigue	22 leads, min. 3 units	22/0	22/0	22/0
Lead Pull	22 leads, min. 3 units	22/0	22/0	22/0
Lead Finish Adhesion	15 leads, min. 3 units	15/0	15/0	15/0
Physical Dimensions	(per mechanical drawing)	5/0	5/0	5/0
Flammability	Method A - UL94-0	5/0	5/0	5/0
Flammability	Method B - IEC 695-2-2	5/0	5/0	5/0
Flammability	Method C - UL 1694	5/0	5/0	5/0
Salt Atmosphere	24 Hrs	22/0	22/0	22/0
Manufacturability (Assembly)	(per mfg. Site specification)	PASS	PASS	PASS
X-ray	(top side only)	5/0	5/0	5/0
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	12/0	12/0
Notes **- Preconditioning sequence: Level 1-260C.				

Qual Vehicle # 5: VCA822IDGS (MSL2-260C)				
Package Construction Details				
Assembly Site:	ASE Shanghai	Mold Compound:	EN2000515	
# Pins-Designator, Family:	10-DGS, VSSOP	Mount Compound:	EY1000063	
Lead frame (Finish, Base):	NiPdAu-Ag, Cu	Bond Wire:	1.0 Mil Dia., Au	
Qualification:	<input type="checkbox"/> Plan	<input checked="" type="checkbox"/> Test Results		
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
**Life test	155C (240 Hrs)	77/0	77/0	77/0
**High Temp. Storage Bake	170C (420hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 15psi (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Solderability	Steam age, 8 hrs	22/0	22/0	22/0
Lead Fatigue	22 leads, min. 3 units	22/0	22/0	22/0
Lead Pull	22 leads, min. 3 units	22/0	22/0	22/0
Lead Finish Adhesion	15 leads, min. 3 units	15/0	15/0	15/0
Salt Atmosphere	24 Hrs	22/0	22/0	22/0
Manufacturability (Assembly)	(per mfg. Site specification)	PASS	PASS	PASS
X-ray	(top side only)	5/0	5/0	5/0
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	12/0	12/0

Notes **- Preconditioning sequence: Level 2-260C.

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