PCN Number:	20161212000	**PCN Date:**	Dec 13 2016
Title:	Quality TI Philippines as an additional Assembly & Test site for select Devices in the PLCC package		
Customer Contact:	PCN Manager	**Dept:**	Quality Services
Proposed 1st Ship Date:	March 13 2017	**Estimated Sample Availability:**	Provided upon Request

Change Type:

☒	Assembly Site	☐	Assembly Process	☒	Assembly Materials
☐	Design	☐	Electrical Specification	☐	Mechanical Specification
☒	Test Site	☐	Packing/Shipping/Labeling	☐	Test Process
☐	Wafer Bump Site	☐	Wafer Bump Material	☐	Wafer Bump Process
☐	Wafer Fab Site	☐	Wafer Fab Materials	☐	Wafer Fab Process
		☐	Part number change		

PCN Details

Description of Change:

Texas Instruments is pleased to announce the TI Philippines as an additional Assembly and Test site for the list of devices shown below. Construction differences between the current and new are as follows:

	MMT	TIPI
Mount Compound	SID#142010008	**4208458**
Mold Compound	SID#141002091	**4207207**

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

Anticipated impact on Material Declaration

☐	No Impact to the Material Declaration	☒	Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the TI ECO website.

Changes to product identification resulting from this PCN:

Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (21L)	Assembly City
MMT	ALP	THA	Chachoengsao
TIPI	**PHI**	**PHL**	**Baguio City**

Sample product shipping label (not actual product label)

Topside Device marking (if included):
Assembly site code for ALP= 8
Assembly site code for PHI = W

Product Affected			
DAC7724N	DAC7724NB/750G4	DAC7725NB	DAC7725NBG4
DAC7724N/750	DAC7724NBG4	DAC7725NB/750	UC3770AQ
DAC7724NB	DAC7725N	DAC7725NB/750G4	UC3770AQTR
DAC7724NB/750			

Qualification Report

MMT Offload Qualification for PLCC 28FN devices
Approve Date 27-Oct-2016

Product Attributes

Attributes	Qual Device: DAC7724NB	Qual Device: UC3770AQTR	QBS Package Reference: SN74ACT8890FN	QBS Package Reference: TL16C754BFN	QBS Package Reference: TLC545IFN
Assembly Site	PHI (TIPI)	PHI (TIPI)	PHI	PHI	PHI
Package Family	PLCC	PLCC	PLCC	PLCC	PLCC
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	SFAB	SFAB	DFAB	HFAB	DFAB
Wafer Fab Process	BCMOS	JI-PWR1	C40	C21	LINCMOS

- QBS: Qual By Similarity
- Qual Device DAC7724NB is qualified at LEVEL3-245C
- Qual Device UC3770AQTR is qualified at LEVEL3-260C

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

Type	Test Name / Condition	Duration	Qual Device: DAC7724NB	Qual Device: UC3770AQTR	QBS Package Reference: SN74ACT8890FN	QBS Package Reference: TL16C754BFN	QBS Package Reference: TLC545IFN
-	Moisture Sensitivity, Jedec	Level 1-260C	-	-	-	-	2/24/0
-	Moisture Sensitivity, Jedec	Level 3-245C	3/34/0	-	-	-	-
-	Moisture Sensitivity, Jedec	Level 3-260C	-	3/36/0	2/24/0	2/24/0	-
AC	Autoclave 121C	240 Hours	-	-	3/231/0	2/154/0	3/231/0
AC	Autoclave 121C	96 Hours	-	3/231/0	-	-	-
CDM	ESD - CDM	500V	-	-	-	3/15/0	-
FLAM	Flammability (UL 94V-0)	-	-	-	-	3/15/0	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/229/0	-	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	-	3/117/0	-
HTSL	High Temp Storage Bake 150C	1000 Hours	-	-	3/231/0	3/231/0	3/231/0
MISC	Salt Atmosphere	-	-	-	-	3/22/0	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	Pass	Pass
TC	Temperature Cycle, -65/150C	500 Cycles	-	3/229/0	3/231/0	3/231/0	3/231/0
THB	Biased Temperature and Humidity, 85C/85%RH	600 Hours	-	-	-	3/78/0	-
TS	Thermal Shock -65/150C	500 Cycles	-	-	3/231/0	3/231/0	3/231/0

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

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

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

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