PCN Number:	20170516000	PCN Date:	June 7, 2017
Title:	Qualification of JCET as additional Assembly and Test Site for Select Devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Sept 7, 2017	Estimated Sample Availability:	Date Provided at Sample request

Change Type:					
☒	Assembly Site	☐	Design	☐	Wafer Bump Site
☐	Assembly Process	☐	Data Sheet	☐	Wafer Bump Material
☒	Assembly Materials	☐	Part number change	☐	Wafer Bump Process
☐	Mechanical Specification	☒	Test Site	☐	Wafer Fab Site
☐	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Materials
				☐	Wafer Fab Process

PCN Details

Description of Change:

Qualification of Jiangsu Changjiang Electronics Technology Co (JCET) as additional Assembly and Test Site for Select Devices listed in the "Product Affected" Section. Current assembly sites and Material differences are as follows.

Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City
Hana A/T	HNT	THA	Ayutthaya
JCET	**JCE**	**CHN**	**Jiangyin**

Material Differences:

	Hana A/T	JCET
Mount compound	400194	120402001600

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

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-Info website. There is no impact to the material meeting current regulatory compliance requirements with this PCN change.

Changes to product identification resulting from this PCN:

Assembly Site		
Hana A/T	Assembly Site Origin (22L)	ASO: HNT
JCET	Assembly Site Origin (22L)	ASO: JCE

Sample product shipping label (not actual product label)

ASSEMBLY SITE CODES: Hana A/T = H, JCET = F

Product Affected:

PCA9306DQER	PCA9306RVHR	PPCA9306DQER	PPCA9306RVHR

Qualification Data

PCA9306DQE (FFAB/JCET)

Approve Date 07-Apr-2016

Product Attributes

Attributes	Qual Device: PCA9306DQE	QBS Product Reference: PCA9306DQE	QBS Product Reference: SN74LVC138ARLK	QBS Product Reference: SN74LVC1G3157DBVR	QBS Product Reference: SN74LVC1G3157DSFR
Assembly Site	JCET	HANA THAILAND	HANA -THAILAND	NFME	HNT
Package Family	uQFN	uQFN	DQFN	SOT	X2SON
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	FFAB	FREISING (FFAB)	FFAB	FFAB	FFAB
Wafer Process	50B10.13_BOPO2/P9792	50B10.13/P9792	BOPO2 P9792	50B10.13_BOPO2 / P9792	50B10.13_BOPO2 / P9792

Attributes	QBS Product Reference: TXB0108YZPR	QBS Process Reference: TPD12S520DBT	QBS Process Reference: TS3L301DGG	QBS Package Reference: AUP3G34DQE	QBS Package Reference: TS3A44159RSV
Assembly Site	JCAP	MLA	MLA	HNT	Hana Thailand
Package Family	-	TSSOP	-	X2SON	-
Flammability Rating	-	UL 94 V-0	UL 94 V0	UL 94 V-0	UL 94 V0
Wafer Fab Supplier	FREISING (FFAB)	FFAB	FFAB	FREISING (FFAB)	DM5
Wafer Process	P9792	50B10/D9793	50B10.1/D9785	-	1833C07

- QBS: Qual By Similarity
- Qual Device PCA9306DQE is qualified at LEVEL1-260CG

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: PCA9306DQE	QBS Product Reference: PCA9306DQE	QBS Product Reference: SN74LVC138ARLK	QBS Product Reference: SN74LVC1G3157DBVR	QBS Product Reference: SN74LVC1G3157DSFR
AC	Autoclave 121C	96 Hours	-	-	-	-	-
ED	Electrical Characterization.	Per Datasheet Parameters	Pass	Pass	Pass	-	Pass
FLAM	Flammability (IEC 695-2-2)	--	-	-	-	-	-
FLAM	Flammability (UL 94V-0)	--	-	-	-	-	-
FLAM	Flammability (UL-1694)	--	-	-	-	-	-
HAST	Biased HAST, 130C/85%RH	96 hours	3/231/0	-	-	-	-
HBM	ESD - HBM	2500 V	-	1/3/0	1/3/0	-	-
CDM	ESD - CDM	1000 V	-	1/3/0	-	-	-
HTOL	Life Test, 150C	300 Hours	-	-	1/77/0	1/77/0	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	-	-	-
LU	Latch-up	(per JESD78, Class II)	-	1/6/0	1/6/0	1/6/0	-
PD	Physical Dimensions	--	3/60/0	-	3/15/0	-	-
SBS	Solder Ball Shear	--	-	-	-	-	-
SD	Solderability	8 Hours Steam Age	-	-	-	-	-
SD	Surface Mount Solderability	Pb-Free	3/66/0	-	-	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	-	-	-	-
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	3/231/0	-	-	-	-
WBP	Bond Pull	Wires	3/108/0	-	-	-	-
WBP	Bond Strength	Wires	-	-	3/228/0	-	-
WBP	Wire Pull	Wires	-	-	-	-	-
WBS	Ball Bond Shear	Wires	3/108/0	-	-	-	-

Type	Test Name / Condition	Duration	QBS Product Reference: TXB0108YZPR	QBS Process Reference: TPD12S520DBT	QBS Process Reference: TS3L301DGG	QBS Package Reference: AUP3G34DQE	QBS Package Reference: TS3A44159RSV
AC	Autoclave 121C	96 Hours	-	1/77/0	3/231/0	3/231/0	3/231/0
ED	Electrical Characterization.	Per Datasheet Parameters	-	Pass	-	-	-
FLAM	Flammability (IEC 695-2-2)	--	-	-	-	-	3/15/0
FLAM	Flammability (UL 94V-0)	--	-	-	-	-	3/15/0
FLAM	Flammability (UL-1694)	--	-	-	-	-	3/15/0
HAST	Biased HAST, 130C/85%RH	96 hours	-	1/77/0	3/231/0	-	3/231/0
HBM	ESD - HBM	2500 V	1/3/0	1/3/0	-	-	-
CDM	ESD - CDM	1000 V	1/3/0	-	-	-	-
HTOL	Life Test, 150C	300 Hours	1/77/0	1/116/0	3/231/0	-	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	3/135/0	-	3/231/0
LU	Latch-up	(per JESD78, Class II)	1/6/0	1/6/0	-	-	-
PD	Physical Dimensions	--	-	-	-	3/30/0	3/15/0
SBS	Solder Ball Shear	--	-	-	-	-	3/228/0
SD	Solderability	8 Hours Steam Age	-	-	-	-	3/66/0
SD	Surface Mount Solderability	Pb-Free	-	-	-	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	1/77/0	3/231/0	3/231/0	3/231/0
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	-	-	-	-
WBP	Bond Pull	Wires	-	-	-	-	-
WBP	Bond Strength	Wires	-	-	-	3/228/0	-
WBP	Wire Pull	Wires	-	-	-	-	3/228/0
WBS	Ball Bond Shear	Wires	-	-	-	-	-

- 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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USA	PCNAmericasContact@list.ti.com
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