


PCN Number:	20190208000.1	PCN Date:	Feb 13, 2019												
Title:	Qualify TI Clark as an additional Assembly site for select devices														
Customer Contact:	PCN Manager	Dept:	Quality Services												
Proposed 1st Ship Date:	May 13, 2019	Estimated Sample Availability:	Provided upon Request												
Change Type:															
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design												
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet												
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change												
<input type="checkbox"/>	Mechanical Specification	<input 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:															
Texas Instruments is pleased to announce the qualification of TI Clark as an additional Assembly site for the list of devices shown below. Material differences between sites are as follows.															
<table border="1"> <thead> <tr> <th>Assembly Site</th> <th>Assembly Site Origin</th> <th>Assembly Country Code</th> <th>Assembly City</th> </tr> </thead> <tbody> <tr> <td>UTAC</td> <td>THA</td> <td>NSE</td> <td>Bangkok</td> </tr> <tr> <td>TI Clark</td> <td>QAB</td> <td>PHL</td> <td>Angeles City</td> </tr> </tbody> </table>				Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly City	UTAC	THA	NSE	Bangkok	TI Clark	QAB	PHL	Angeles City
Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly City												
UTAC	THA	NSE	Bangkok												
TI Clark	QAB	PHL	Angeles City												
Material Differences:															
<table border="1"> <thead> <tr> <th></th> <th>UTAC</th> <th>TI Clark</th> </tr> </thead> <tbody> <tr> <td>Mount Compound</td> <td>PZ0035</td> <td>4207123</td> </tr> <tr> <td>Lead finish</td> <td>NiPdAuAg</td> <td>NiPdAu</td> </tr> </tbody> </table>					UTAC	TI Clark	Mount Compound	PZ0035	4207123	Lead finish	NiPdAuAg	NiPdAu			
	UTAC	TI Clark													
Mount Compound	PZ0035	4207123													
Lead finish	NiPdAuAg	NiPdAu													
Reason for Change:															
Continuity of Supply															
Anticipated impact on Material Declaration															
<input type="checkbox"/>	No Impact to the Material Declaration	<input checked="" type="checkbox"/>	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.												
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):															
None															
Changes to product identification resulting from this PCN:															

Assembly Site		
UTAC	Assembly Site Origin (22L)	ASO: THA
TI Clark Philippines	Assembly Site Origin (22L)	ASO: QAB


Sample product shipping label (not actual product label)




MADE IN: Malaysia
2DC: 20:

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) CS0: SHE (21L) CCO:USA
(22L) ASO: MLA (23L) ACO: MYS

Product Affected:

CC3120RNMARGKR	CC3220RM2ARGKR	CC3220SM2ARGKR
CC3120RNMARGKT	CC3220RM2ARGKT	CC3220SM2ARGKT

Qualification Report

Approve Date 18-Jan-2019

Qualification Results

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

Type	Test Name / Condition	Duration	QBS Product Reference: CC3XXX	QBS Package Reference: 430FR5969IRGZR
ED	Electrical Characterization	Per Datasheet Parameters	Pass	-
HBM	ESD HBM	2000 V	1/3/0	-
CDM	ESD CDM	500V	1/3/0	-
EDR+ HTOL	Life Test, 125C – 100K W/E Endurance cycles followed by 1000 hours HTOL	1000 Hours	2/148/0	-
EDR+ HTSL	High Temp. Storage Bake, 150C– 100K W/E Endurance cycles followed by 1000 hours HTSL	1000 Hours	3/230/0	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	3/229/0
LU	Latch up	(per JESD78)	1/6/0	-
MQ	TEST MQ	-	Pass	Pass
TC	Temperature Cycle, -55/125C	700 Cycles	3/231/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	3/231/0
THB	Biased Temperature & Humidity, 85C/85%RH	1000 Hours	3/77/0	-
BHAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0
UHAST	Unbiased HAST, 110C/85%RH	264 Hours	3/231/0	-
AC	Autoclave 121C	96 Hours	-	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

THIS INFORMATION RELATING TO QUALITY AND RELIABILITY IS PROVIDED "AS IS." Product information detailed in this report may not accurately reflect TI's current product materials, processes and testing used in the construction of the TI products. Customers are solely responsible to conduct sufficient engineering and additional qualification testing to determine whether a device is suitable for use in their applications. Using TI products outside limits stated in TI's datasheet may void TI's warranty. See TI's Terms of Sale at "<http://www.ti.com/lscs/ti/legal/termsofsale.page>"

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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