

PCN Number:	20191211002.2		PCN Date:	Dec 13 2019										
Title:	Qualification of TI Malaysia as an additional AT site for the AMC1200STDUBRQ1													
Customer Contact:	PCN Manager	Dept:	Quality Services											
Proposed 1st Ship Date:	Jun 10 2020	Estimated Sample Availability:	Date provided at sample request											
Change Type:														
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site									
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material									
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process									
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site									
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials									
		<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process									
PCN Details														
Description of Change:														
Texas Instruments is pleased to announce the qualification of TI Malaysia as an additional assembly site for the AMC1200STDUBRQ1. Current assembly site and Material differences are as follows:														
<table border="1"> <thead> <tr> <th></th> <th>Hana</th> <th>MLA</th> </tr> </thead> <tbody> <tr> <td>Mold Compound</td> <td>SID#450265</td> <td>4221499</td> </tr> <tr> <td>Mount Compound</td> <td>SID#400180</td> <td>4211470</td> </tr> </tbody> </table>							Hana	MLA	Mold Compound	SID#450265	4221499	Mount Compound	SID#400180	4211470
	Hana	MLA												
Mold Compound	SID#450265	4221499												
Mount Compound	SID#400180	4211470												
Reason for Change:														
Continuity of Supply														
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):														
None														
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 at the site link below http://www.ti.com/quality/docs/materialcontentsearch.tsp											

Changes to product identification resulting from this PCN:			
Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City
Hana	HNT	THA	Ayutthaya
MLA	MLA	MYS	Kuala Lumpur
Sample product shipping label (not actual product label)			



MADE IN: Malaysia
2DC: 2Q:

MSL 2 /260C/1 YEAR	SEAL DT
MSL 1 /235C/UNLIM	03/29/04

OPT:

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

Product Affected:

AMC1200STDUBRQ1



TI Information
Selective Disclosure

Automotive New Product Qualification Summary
(As per AEC-Q100 and JEDEC Guidelines)

Qualification Results

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

Type	#	Test Spec	Min Lot Qty	SS/Lot	Test Name / Condition	Duration	Qual Device: AMC1200STDUBRQ1
Test Group A – Accelerated Environment Stress Tests							
PC	A1	JEDEC J-STD-020 JESD22-A113	3	77	Preconditioning	Level 3-260C	1 Fail (1)
HAST	A2	JEDEC JESD22-A110	3	77	Biased HAST, 130C/85%RH	96 Hours	3/231/0
AC	A3	JEDEC JESD22-A102	3	77	Autoclave 121C	96 Hours	3/231/0
TC	A4	JEDEC JESD22-A104 and Appendix 3	3	77	Temperature Cycle, -65/150C	500 Cycles	3/231/0
TC-BP	A4	MIL-STD883 Method 2011	1	60	Post Temp Cycle Bond Pull, 500 Cycles	Wires	1/30/0
PTC	A5	JEDEC JESD22-A105	1	45	Power Temperature Cycle	1000 Cycles	N/A
HTSL	A6	JEDEC JESD22-A103	1	45	High Temp Storage Bake 150C	1000 Hours	1/45/0
Test Group B – Accelerated Lifetime Simulation Tests							
HTOL	B1	JEDEC JESD22-A108	3	77	Life Test, 150C	300 Hours	3/231/0
ELFR	B2	AEC Q100-008	3	800	Early Life Failure Rate, 125C	24 Hours	3/840/0
EDR	B3	AEC Q100-005	3	77	NVM Endurance, Data Retention, and Operational Life	-	N/A
Test Group C – Package Assembly Integrity Tests							
WBS	C1	AEC Q100-001	1	30	Wire Bond Shear, Cpk>1.67	Wires	1/30/0
WBP	C2	MIL-STD883 Method 2011	1	30	Bond Pull, Cpk>1.67	Wires	1/30/0
SD	C3	JEDEC JESD22-B102	1	15	Surface Mount Solderability w Bake Precon	Pb Free Solder	3/36/0
SD	C3	JEDEC JESD22-B102	1	15	Surface Mount Solderability w Bake Precon	Pb Solder	3/36/0
PD	C4	JEDEC JESD22-B100 and B108	3	10	Physical Dimensions	Cpk>1.67	3/30/0
Test Group E – Electrical Verification Tests							
CDM	E3	AEC Q100-011	1	3	ESD - CDM	1500 V	1/3/0
ED	E5	AEC Q100-009	3	30	Electrical Distribution	Cpk>1.67	3/90/0

A1 (PC): Preconditioning:

Performed for THB, Biased HAST, AC, uHAST, TC & PTC samples, as applicable.

Ambient Operating Temperature by Automotive Grade Level:

Grade 0 (or E): -40°C to +150°C

Grade 1 (or Q): -40°C to +125°C

Grade 2 (or T): -40°C to +105°C

Grade 3 (or I): -40°C to +85°C

E1 (TEST): Electrical test temperatures of Qual samples (High temperature according to Grade level):

Room/Hot/Cold: HTOL, ED

Room/Hot: THB / HAST, TC / PTC, HTSL, ELFR, ESD & LU

Room: AC/uHAST

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

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

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