

PRODUCT AND PROCESS CHANGE NOTIFICATION

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ISSUE DATE: 29-Sep-2015
NOTIFICATION: 16932
TITLE: i.MX6DualLite and i.MX6Solo Auto Tier 2nd Assembly Site (Freescale, TJN)
EFFECTIVE DATE: 27-Mar-2016

DEVICE(S)

MPN
MCIMX6S1AVM08AC
MCIMX6S1AVM08ACR
MCIMX6S4AVM08AB
MCIMX6S4AVM08ABR
MCIMX6S4AVM08AC
MCIMX6S4AVM08ACR
MCIMX6S6AVM08AB
MCIMX6S6AVM08ABR
MCIMX6S6AVM08AC
MCIMX6S6AVM08ACR
MCIMX6U1AVM08AB
MCIMX6U1AVM08ABR
MCIMX6U1AVM08AC
MCIMX6U1AVM08ACR
MCIMX6U4AVM08AB
MCIMX6U4AVM08ABR
MCIMX6U4AVM08AC
MCIMX6U4AVM08ACR
MCIMX6U6AVM08AB
MCIMX6U6AVM08ABR
MCIMX6U6AVM08AC
MCIMX6U6AVM08ACR
PCIMX6S1AVM08AC
PCIMX6S6AVM08AB
PCIMX6S6AVM08AC

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AFFECTED CHANGE CATEGORIES

- ASSEMBLY SITE

DESCRIPTION OF CHANGE

Freescale Semiconductor is announcing the 2nd assembly site qualification for the i.MX6DualLite and i.MX6Solo at Freescale TJN Assembly, China.
The current assembly site is ASE Chung Li (ASECL), TAIWAN.

Available Sample part ids

PCIMX6S6AVM08AC
PCIMX6U6AVM08AC

Estimated Milestones	Target Date	Comments
Planned Implementation	See 'Effective Date' on PCN	
Qualified Samples Available	See 'Sample Availability Date' on PCN	
Backlog Conversion	NA	
Deliveries	Contact Customer Service for lead time.	
General Market PPAP Available	16-Oct-15	
If applicable, include Impact to supply if change is not qualified	If the customer is unable to approve, supply cannot be assured	

REASON FOR CHANGE

Qualification of the Freescale TJN assembly facility to improve manufacturing flexibility and customer support.

ANTICIPATED IMPACT OF PRODUCT CHANGE(FORM, FIT, FUNCTION, OR RELIABILITY)

There is no impact on device form, fit, function or reliability.

According to JEDEC Standard JESD46, lack of acknowledgement of this PCN within 30 days will be considered acceptance of change. To request further data or inquire about the notification, please enter a [Service Request](#).

For sample inquiries - please go to www.freescale.com

QUAL DATA AVAILABILITY DATE: 16-Sep-2015

QUALIFICATION STATUS: COMPLETED

QUALIFICATION PLAN:

please refer to the attachment.

RELIABILITY DATA SUMMARY:

please refer to the attachment.

ELECTRICAL CHARACTERISTIC SUMMARY:

available upon request.

CHANGED PART IDENTIFICATION:

The assembly site, among other information, is reflected in the package trace code.
The format for the Freescale standard assembly trace code: "AWLYYWW" is the following:
A=Assembly Site, WL=Wafer Lot, YY=Year, WW=Work Week.
The current assembly site marking for ASECL is A="X".
The marking for the assembly site Freescale TJN is A="CT".

SAMPLE AVAILABILITY DATE: 29-Sep-2015

ATTACHMENT(S):

External attachment(s) FOR this notification can be viewed AT:

[16932_16Sept2015_iMX6DL_S_TJN_Auto_Report.pdf](#)

[16932_Rigel_i_MX_6DLS_Auto_Qual_CofDC_16932_01.pdf](#)

[16932_Rigel_i_MX_6DLS_Auto_Qual_DeQeMa_16932_01.pdf](#)



Delta Qualification Matrix vs ZVEI change table for TJN 2nd Assembly site of i.MX6DLS, Auto Tier

GPCN # 16932

DATE 09.16.2015



External Use

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Delta Qualification Matrix for GPCN#16932, TJN 2nd Assembly site of i.MX6DLS, Auto Tier

Form provided by 2061 - Revision 1.0 - January 2013

For integrated circuits or discrete semiconductors select below:
AEC-Q100

Worked on: Yan Liu on: 2015-04-20

PCN number 16932

Assessment of impact on Supply Chain regarding following aspects - contractual agreements - technical interface of processability/manufacturability of customer - form, fit, function, quality performance, reliability			Remaining risks on Supply Chain?		Understanding of semiconductor experts	Examples to explain	Remarks / Comments	Evaluation level A: Additional test B: Additional test C: Component test D: Component test E: Component test F: Component test G: Component test H: Component test I: Component test J: Component test K: Component test L: Component test M: Component test N: Component test O: Component test P: Component test Q: Component test R: Component test S: Component test T: Component test U: Component test V: Component test W: Component test X: Component test Y: Component test Z: Component test	Remarks
Type of change			No	Yes					
NEW									
PROCESS - ASSEMBLY									
Change of test compound	P	P	Change of test compound						
Change of board wire material / diameter	P	P	Material, diameter, change in process technique						
Move of all or part of assembly to a different location/manufacturer	P	P	Assembly location or relocation						
Tests, which should be considered for the appropriate process change.									
Tests, which should be considered for the appropriate process change after selection of condition table.									
Suppliers performed tests (mark with an "X" for done, or "I" for generic)									
Reason for exception of tests:									
This document is not a legal document. It is a document for information only. It is not a contract. It is not a warranty. It is not a guarantee. It is not a promise. It is not a commitment. It is not a statement of intent. It is not a statement of opinion. It is not a statement of fact. It is not a statement of law. It is not a statement of policy. It is not a statement of procedure. It is not a statement of practice. It is not a statement of principle. It is not a statement of purpose. It is not a statement of result. It is not a statement of achievement. It is not a statement of success. It is not a statement of failure. It is not a statement of loss. It is not a statement of gain. It is not a statement of risk. It is not a statement of opportunity. It is not a statement of challenge. It is not a statement of goal. It is not a statement of mission. It is not a statement of vision. It is not a statement of strategy. It is not a statement of plan. It is not a statement of action. 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C of DC Comparison for i.MX6DualLite and i.MX6Solo Auto Tier 2ND ASSEMBLY SITE (Freescale, TJN)

GPCN # 16932

DATE 09.16.2015



External Use

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C of DC Comparison for GPCN#16932, i.MX6DualLite and i.MX6Solo Auto Tier 2ND ASSEMBLY SITE (Freescale, TJN)

	Item Name	Change: FSL-TJN assy	Current: ASE-CL assy
6.	Assembly Location & Process ID:		
	a. Facility name/plant #:	FSL-TJN-FM	ASE-CL
	b. Street address:	No.15 Xinghua Avenue, Xiqing Economic Development Area, Tianjin	No 550Sec 1Chuang Hua Rd, Chung Li City, Taoyuan 320, Taiwan
	c. Country:	China	Taiwan

Freescale Automotive Qualification Report

Objective: Change: Add TJN as 2nd Assembly Site for i.MX6 DL/S, rev 1.1 / 1.2 / 1.3							
Freescale PN: xxIMX6UxAVMxxx Part Name: xxIMX6SxAVMxxx			Customer Name(s): various PN(s):			Plan or Results: see revision table Revision # & Date:	
Technology: TSMC native 40nmLP Package: 21x21 0.8mm BGA wirebond package at TJN			Design Engr: Allen Wagner			QUARTZ Tracking #: 230688	
Fab / Assembly / TSMC14 / TJN / Final Test Sites: TJN			Product Engr: Yan Liu				
Maskset#: N81E Rev#: Rev1.1 / Rev1.2 / Rev1.3			Prod. Package Engr: Haiyan, Liu			PPE Approval (for P.L.Mei DIM/BOM results) Signature & Date:	
			NPI PRQE: Michael Madden			NPI PRQE Approval Michael Madden Signature & Date:	
Part Operating AEC Temp. Grade: Grade 3 <i>Tj</i> : -40C to 125C			Trace/DateCode:	Lot A: CTNARG1516A	Lot B: CTNARR1516A	Lot C: CTNARR1516B	CAB Number 15150866M
Test Program Name: QUAL_E4			Test Program Revision: E4				

GROUP A - ACCELERATED ENVIRONMENTAL STRESS TESTS

Stress Test	Reference	Test Conditions	End Point Requirements	Minimum Sample Size	# of Lots	Total Units	Results Lot ID-(#Rej/SS) NA=Not Applicable	Comments
PC	JESD22-A113 J-STD-020	Preconditioning (PC) : PC required for SMDs only. MSL 3 @ 260 °C, +5/-0 °C (Note 3)	TEST @ RH	All surface mount devices prior to THB, HAST, AC, UHST, TC, PC+PTC and as required per test conditions. SAM SS=11 units for each stress test for each lot			Passed	
MSL Study	JESD22-A113 J-STD-020	Preconditioning : MSL 3 @ 260 °C, +5/-0 °C CSAM at "time 0" and post reflow CSAM SS=11 units x two lots	TEST @ RH	11	3	33	Passed Lot A: 0/11 Lot B: 0/11 Lot C: 0/11	
THB	JESD22-A101 A110	Temperature-Humidity-Bias (THB): PC before THB (for SMDs only): Required THB = 85 °C/85%RH for 1008 hrs. Bias = nominal Timed RO of 48hrs. MAX	TEST @ RH	77 + 3	3	240	Passed Lot A: 0/80 Lot B: 0/80 Lot C: 0/80	
UHST	JESD22-A102 A118	Unbiased HAST (UHST) : PC before UHST (for SMDs only): Required UHST = 110 °C/85%RH for 264 hrs. Timed RO of 48hrs. MAX	TEST @ R	77 + 3	3	240	Passed Lot A: 0/80 Lot B: 0/80 Lot C: 0/80	
TC	JESD22-A104	Temperature Cycle (TC) : PC before TC (for SMDs only): Required TC = -55 °C to +150 °C for 500 cycles ; WBP after TC on 5 devices from 1 lot; 2 bonds per corner and one mid-bond per side on each device. Record which pins were used.	TEST @ H	77 + 3	3	240	Passed Lot A: 0/80 Lot B: 0/80 Lot C: 0/80 Wire Pull Data: Passed	
HTSL	JESD22-A103	High Temperature Storage Life (HTSL) : 150 °C for 1008 hrs Electrical test must be performed within 96hrs after stress.	TEST @ RH	45	1	45	Passed Lot A: 0/80	

TEST GROUP C - PACKAGE ASSEMBLY INTEGRITY TESTS

Stress Test	Reference	Test Conditions	End Point Requirements	Minimum Sample Size	# of Lots	Total Units	Results Lot ID-(#Rej/SS) NA=Not Applicable	Comments
WBS	JESD22-B116	Wire Bond shear (WBS)	Cpk = or > 1.67	30 bonds from minimum 5 units	1	5	Passed	
WBP	JESD22-B116	Wire Bond Pull (WBP) : Cond. C or D	Cpk = or > 1.67	30 bonds from minimum 5 units	1	5	Passed	
PD	JESD22-B100	Physical Dimensions(PD) : PD per FSL 98A drawing	Cpk = or > 1.67	10	3	30	Passed	
SBS	AEC-Q100-010	Solder Ball Shear (SBS) : Performed on all solder ball mounted packages e.g. PBGA, Chip Scale, Micro Lead Frame (but NOT Flip Chip). Two 220 °C reflow cycles before shear.	Cpk = or > 1.67	10 (5 balls from a min. of 10 devices)	3	30	Passed	
DIM & BOM		Dimensional (DIM) : PPE to verify PD results against valid 98A drawing. BOM Verification (BOM) : PPE to verify qual lot ERF BOM is accurate.					DOM: Verified BOM: Verified	
Thermal Moire' Evaluation (at representative temperature)	JEDEC JESD22B-112	High temp warpage not to exceed the greater than 170 um or best available BOM.	6 units from representative locations on the MAP panel	1	6	Highest reading <170 um at 260C	Passed	

Revision	Change	Date	Author
16Sept2015	Initial Report	16-Sep-15	Michael Madden

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