



PRODUCT AND PROCESS CHANGE NOTIFICATION

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ISSUE DATE: 11-Mar-2016
NOTIFICATION: 17079
TITLE: ASECL Au Wire Assembly Process Qualification - Auto QFN 6x6 Sensor Airbag
EFFECTIVE DATE: 07-Sep-2016

DEVICE(S)

MPN
MMA1618KGWR2
MMA1618KWR2
MMA1631NKGWR2
MMA1631NKWR2
MMA1725WR2
MMA2612KGWR2
MMA2612KWR2
MMA2612NKGWR2
MMA2612NKWR2
MMA2631NKGWR2
MMA2631NKWR2
MMA2702WR2
MMA2712WR2
MMA2718JWR2
MMA2718WR2
MMA2725JWR2
MMA2725WR2
MMA2737WR2
MMA5106KWR2
MMA5106LWR2
MMA5112KWR2
MMA5112LWR2
MMA5124KWR2
MMA5148KWR2

MMA5148LWR2
MMA5206KWR2
MMA5212AKWR2
MMA5212KWR2
MMA5224AKWR2
MMA5224KWR2
MMA5224LWR2
MMA5248KWR2
MMA5248LWR2
MMA6519KWR2
MMA6525KWR2
MMA6527KWR2
MMA6555KWR2
MMA6556KWR2
MMA6801KWR2
MMA6811BKWR2
MMA6811KWR2
MMA6813BKWR2
MMA6813KWR2
MMA6821BKWR2
MMA6821KWR2
MMA6823BKWR2
MMA6823KWR2
MMA6825BKWR2
MMA6825KWR2
MMA6826BKWR2
MMA6826KWR2
MMA6827BKWR2
MMA6827KWR2
MMA6851BKWR2
MMA6852KWR2
MMA6853BKWR2
MMA6853KWR2
MMA6854KWR2
MMA6855BKWR2

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AFFECTED CHANGE CATEGORIES

- ASSEMBLY SITE

DESCRIPTION OF CHANGE

NXP Semiconductor is announcing the qualification of the ASE Chung Li (Taiwan) assembly site for the assembly of 6x6 QFN sensor accelerometers products (gold wire bond process). This transfer includes the following changes (which were qualified with copper wire in 2015):

1. Mold compound change.
2. Change from the Amkor Korea K1's "Dimpled" wettable flanks to ASE Chung Li's standard "Step Cut" wettable flanks.
3. Change from Amkor Korea K1's asic die attach to ASE Chung Li's standard asic die attach.

Milestone	Target Date
Planned Implementation	See 'Effective Date'
Qualified Samples Available	See 'Sample Availability Date'
Backlog Conversion	Assembly site qualification only
PPAP	March 31, 2016

REASON FOR CHANGE

Amkor Korea K1 site is closing by end of 2016.

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

There will be no impact on fit, function or reliability.

The device form will change due to the "step cut" wettable flanks.

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 [Support Case](#). **Be aware that after you select this link to enter your request, you must choose the topic "Product Change Notification" once on the Salesforce page.**

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

QUAL DATA AVAILABILITY DATE: 01-Feb-2016

QUALIFICATION STATUS: COMPLETED

QUALIFICATION PLAN:

NXP Semiconductor Manufacturing standard specification for assembly transfers was followed for the Assembly Transfer Qualification.

RELIABILITY DATA SUMMARY:

See attached reports

ELECTRICAL CHARACTERISTIC SUMMARY:

Comparison between Amkor Korea (ATK1) and ASE Chung Li (ASECL) was completed. Parameters show no significant difference.

CHANGED PART IDENTIFICATION:

The assembly site, among other information, is reflected in the package trace code.

The format for the NXP standard trace code: AWLYWW is the following:

A=Assembly Site, WL=Wafer Lot, Y=Year, WW=Work Week.

The current assembly site marking for Amkor Korea K1 is A = I

The marking for proposed assembly ASE Chung Li is A = X

The orderable ASECL Au wire part numbers will add in a "V" to the existing part number. Below is an example:

Current NXP Part Number (ATK1)	ASECL Au Part Number	ASECL Cu Part Number
MMA6525KWR2	MMA6525K <u>V</u> WR2	MMA6525K <u>C</u> WR2

SAMPLE AVAILABILITY DATE: 01-Mar-2016

ATTACHMENT(S):

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

[17079 160205 ASECL Au Assembly Transfer 6x6 QFN PCN Presentation.pdf](#)

[17079 Amkor Kr transfer to ASECL Au 4metal-layer Qual Plan GeneralMarket Ver results 26Jan16.pdf](#)

[17079 Amkor Kr transfer to ASECL Au 3metal-layer Qual Plan GeneralMarket Ver results 5Feb16.pdf](#)

[17079 CofDC Comparison ASECL Au SycamoreXY.pdf](#)

[17079 ASECL Au MesquiteXY Qual Data.pdf](#)

[17079 ASECL Au SycamoreXY Qual Data.pdf](#)

[17079 ASECL Au OroyaX Qual Data.pdf](#)

[17079 ASECL Au OroyaZ Qual Data.pdf](#)

[17079 ASECL Au Assy Auto Transfer Delta Qualification Matrix ZVEI.pdf](#)
