



PRODUCT AND PROCESS CHANGE NOTIFICATION UPDATE

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ISSUE DATE: 17-Jun-2015
NOTIFICATION: 16157B
TITLE: SENSOR AIRBAG ACCELEROMETER 6X6 QFN ASSEMBLY
 TRANSFER FROM AMKOR KOREA K1 TO ASE CHUNG LI FACILITY
EFFECTIVE DATE: 14-Dec-2015

DEVICE(S)

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

Freescale Semiconductor is announcing the qualification of the ASE Chung Li (Taiwan) assembly site for the assembly of 6x6 QFN sensor accelerometers products.

Milestone	Target Date
Pre-Alert issued	13-Mar-2014
Planned Implementation	See 'Effective Date'
Qualified Samples Available	See 'Sample Availability Date'
Backlog Conversion	Assembly site qualification only
PPAP	As Requested

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 [Service Request](#).

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

RELATED NOTIFICATION(S):

[16157](#) - Sensor Airbag Accelerometer 6x6 QFN Assembly Transfer from Amkor Korea K1 to ASE Chung Li Facility

TO VIEW the GENERIC copy, click on the notification number above.

QUAL DATA AVAILABILITY DATE: 20-Apr-2015

QUALIFICATION STATUS: NEW**QUALIFICATION PLAN:**

Freescale Semiconductor Manufacturing standard specification for assembly transfers was followed for the Assembly Transfer

RELIABILITY DATA SUMMARY:

See attached report

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 Freescale 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 part numbers will add in a "C" to the existing part number. Below is an example:

Current Freescale Part Number	ASECL Part Number
MMA6525KWR2	MMA6525K <u>C</u> WR2

ASECL samples can be ordered with part numbers that start with a "P" will add in a "C" to the existing part number. Below is an example:

Current Freescale Part Number	ASECL Part Number
MMA6525KWR2	<u>P</u> MMA6525K <u>C</u> WR2

SAMPLE AVAILABILITY DATE: 09-Apr-2015

ATTACHMENT(S):

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

[16157B Amkor Kr transfer to ASECL 4metal-](#)

[layer Qual Plan GeneralMarket Ver results 7Mayr15.pdf](#)

[16157B Amkor Kr transfer to ASECL 3metal-](#)

[layer Qual Plan GeneralMarket Ver results 20Mayr15.pdf](#)

[16157B 150508 PCN-Delta-Qualification-Matrix-](#)

[ZVEI-2 1 ASECL Auto Transfer 1Apr15.pdf](#)

[16157B 150414 CofDC Comparison ASECL SycamoreXY.pdf](#)

[16157B 150409 ASECL MesquiteXY Qual Data.pdf](#)

[16157B 150409 ASECL SycamoreXY Qual Data.pdf](#)

[16157B 150601 ASECL Oroya2X Qual Data.pdf](#)

[16157B 150601 ASECL Oroya2Z Qual Data.pdf](#)

[16157B 150612 ASECL Assembly Transfer 6x6 QFN PCN Presentation.pdf](#)
