



PRODUCT AND PROCESS CHANGE NOTIFICATION

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ISSUE DATE: 03-Jun-2016
NOTIFICATION: 17193
TITLE: Second Source Assembly for RF PQFN/MLF Product Lines
EFFECTIVE DATE: 15-Jul-2016

DEVICE(S)

MPN
MMA20312BT1
MMA20312BVT1
MMDS09254HT1
MMDS20254HT1
MMDS25254HT1
MMG20271HT1
MMG3006NT1
MML09211HT1
MML09212HT1
MML09231HT1
MML20211HT1
MML20242HT1
MMT20303HT1
MMZ09312BT1
MMZ09332BT1
MMZ25332B4T1
MMZ25332BT1
MMZ25333BT1
MMZ27333BT1

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AFFECTED CHANGE CATEGORIES

- ASSEMBLY SITE

DESCRIPTION OF CHANGE

This is a notification of NXP's qualifying of second assembly site for RF PQFN/MLF packages. This formal notification describes the qualification process.

Qualification schedules by device, as well as reliability and electrical results are provided in the PCN. All electrical and reliability data is shown for qualification vehicles and schedule for sample availability is also included. Qualification dates are based on current orders and forecasts and are subject to change without notice after PCN expiration. There is no change in fit, form, or function with the new assembly site.

Part	Estimated 2nd Assembly Qualification	Sample Date
MML09211H	Jul - 16	Aug - 16
MML20211H	Jul - 16	Aug - 16
MML09231H	Jul - 16	Aug - 16
MMG20271H	Jul - 16	Aug - 16
MML09212H	Jul - 16	Aug - 16
MML20242H	Jul - 16	Aug - 16
MMZ09312B	Jul - 16	Aug - 16
MMA20312B	Jul - 16	Aug - 16
MMA20312BV	Jul - 16	Aug - 16
MMZ25332B	Jul - 16	Aug - 16
MMZ09332B	Jul - 16	Aug - 16
MMT20303H	Jul - 16	Aug - 16
MMZ25332B4	Jul - 16	Aug - 16
MMZ25333B	Jul - 16	Aug - 16
MMZ27333B	Jul - 16	Aug - 16
MMG3006N	Jul - 16	Aug - 16
MMDS09254H	Jul - 16	Aug - 16
MMDS20254H	Jul - 16	Aug - 16
MMDS36254H	Jul - 16	Aug - 16
MMDS25254H	Jul - 16	Aug - 16

REASON FOR CHANGE

Qualification of second assembly site.

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

None.

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: 03-Nov-2016

QUALIFICATION STATUS: N/A

QUALIFICATION PLAN:

1st Qual Vehicle Reliability Test Plan

Reliability Test	2nd Assy Site Lot 1	2nd Assy Site Lot 2	2nd Assy Site Lot 3	Original Assy Site Control Lot
THB	25	25	25	25
Temp Cycle	25	25	25	25
HTSL	25	25	25	25
Electricals	100	100	100	Historical
Wire Pull	5	5	5	5
Die Attach	10	10	10	10

2nd Qual Vehicle Reliability Test Plan

Reliability Test	2nd Assy Site Lot 1	2nd Assy Site Lot 2	2nd Assy Site Lot 3	Original Assy Site Control Lot
Electricals	100	100	100	Historical
Wire Pull	5	5	5	5
Die Attach	10	10	10	10

3rd Qual Vehicle Reliability Test Plan

Reliability Test	2nd Assy Site Lot 1	2nd Assy Site Lot 2	2nd Assy Site Lot 3	Original Assy Site Control Lot
THB	25	25	25	25
Temp Cycle	25	25	25	25
HTSL	77	77	100	Historical
Electricals	100	100		
Wire Pull	5	5	5	5
Die Attach	10	10	10	10

4th Qual Vehicle Reliability Test Plan

Reliability Test	2nd Assy Site Lot 1	2nd Assy Site Lot 2	2nd Assy Site Lot 3	Original Assy Site Control Lot
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THB	25	25	25	25
Temp Cycle	25	25	25	25
HTSL	77	77		
Electricals	100	100	100	Historical
Wire Pull	5	5	5	5
Die Attach	10	10	10	10

RELIABILITY DATA SUMMARY:

Reliability Data Summary - 1st Qual Vehicle

Reliability Test	2nd Assy Site Lot 1	2nd Assy Site Lot 2	2nd Assy Site Lot 3	Original Assy Controls	Results
THB	25	25	25	25	Pass (504hr)
Temp Cycle	25	25	25	25	Pass (500 cycles)
HTSL	25	25	25	25	Pass (1008hr)
Electricals	100	100	100	Historical	Pass
Wire Pull	5	5	5	5	Pass
Die Attach	10	10	10	10	Pass

Reliability Data Summary - 2nd Qual Vehicle

Reliability Test	2nd Assy Site Lot 1	2nd Assy Site Lot 2	2nd Assy Site Lot 3	Original Assy Controls	Results
Electricals	100	100	100	Historical	Pass
Wire Pull	5	5	5	5	Pass
Die Attach	10	10	10	10	Pass

Reliability Data Summary – 3rd Qual Vehicle

Reliability Test	2nd Assy Site Lot 1	2nd Assy Site Lot 2	2nd Assy Site Lot 3	Original Assy Controls	Results
THB	25	25	25	25	Pass (504hr)
Temp Cycle	25	25	25	25	Pass (500 cycles)
HTSL	25	25	25	25	Pass (1008hr)
Electricals	100	100	100	Historical	Pass

Wire Pull	5	5	5	5	Pass
Die Attach	10	10	10	10	Pass

Reliability Data Summary –
4th Qual Vehicle

Reliability Test	2nd Assy Site Lot 1	2nd Assy Site Lot 2	2nd Assy Site Lot 3	Original Assy Controls	Results
THB	25	25	25	25	July-2016
Temp Cycle	25	25	25	25	July-2016
HTSL	25	25	25	25	July-2016
Electricals	100	100	100	Historical	July-2016
Wire Pull	5	5	5	5	July-2016
Die Attach	10	10	10	10	July-2016

ELECTRICAL CHARACTERISTIC SUMMARY:

Electrical Characteristic Summary - 1st Qual Vehicle

MML09211HT1 MLF/QFN 2x2		2nd Assembly Site	Production
S21 900MHz (dB)	Avg	20.91	20.78
	Std Dev	0.16	0.19
Icq (mA)	Avg	61.48	64.2
	Std Dev	1.71	1.86
Irf (mA)	Avg	64.37	66.64
	Std Dev	1.46	1.77

Electrical Characteristic Summary – 2nd Qual Vehicle

MMG3006NT1 MLF/QFN 4x4		2nd Assembly Site	Production
S21 900MHz (dB)	Avg	14.41	14.27
	Std Dev	0.09	0.12
Icq (mA)	Avg	832.97	833.72
	Std Dev	9.89	10.03

Electrical Characteristic Summary – 3rd Qual Vehicle

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MMZ25254HT1 MLF/QFN 6x6		2nd Assembly Site	Production
Idd (mA)	Avg	11.18	10.97
Std Dev	0.31	0.12	
The rest of the parameters are discrete			

Electrical Characteristic Summary – 4th Qual Vehicle

MMZ20312BV MLF 3x3		2nd Assembly Site	Production
S21 2140 MHz (dB)	Avg	26.06	26.01
	Std Dev	0.58	0.41
Icq (mA)	Avg	62.56	57.01
	Std Dev	1.12	0.86
Irf (mA)	Avg	125.09	127.65
	Std Dev	5.48	4.69

CHANGED PART IDENTIFICATION:

Parts assembled at new site will be marked with a date code beginning work week 35 of 2016.

SAMPLE AVAILABILITY DATE: 03-Jun-2016

ATTACHMENT(S):

N/A
