



Final Product Change Notification

202002008F01

Issue Date: 07-Apr-2020

Effective Date: 06-Jul-2020

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QUALITY

Change Category

- | | | | | |
|--|---|--|---|---|
| ☐ Wafer Fab Process | ☐ Assembly Process | ☐ Product Marking | ☐ Test Location | ☐ Design |
| ☐ Wafer Fab Materials | ☐ Assembly Materials | ☐ Mechanical Specification | ☐ Test Process | ☐ Errata |
| ☐ Wafer Fab Location | ☐ Assembly Location | ☐ Packing/Shipping/Labeling | ☐ Test Equipment | ☐ Electrical spec./Test coverage |
| ☐ Firmware | ☒ Other - Leadframe redesign. | | | |

MPC5744P Lead Frame Design Change For The 144 LQFP

Description of Change

NXP Semiconductors will be implementing a change in lead frame design for MPC5744P on the 144LQFP package option.

Changes in lead frame design includes:

- Top side power bar will be removed.
- Length of lead fingers will be standardized on each sides.
- Kapton tape width will be increased to better prevent lead fingers from tilting.

A side by side comparison between the current lead frame design and the new lead frame design is available in an attachment together with this notification.

There will be no change to the package case outline and lead frame plating material.

Corresponding ZVEI Delta Qualification Matrix ID: SEM-PA-03, SEM-PA-08.

Reason for Change

The lead frame design change is to improve product quality and reliability.

Identification of Affected Products

Product identification does not change

Product Availability

Sample Information

Samples are available upon request

Below sample part numbers are available upon request.

KPC5742PK1AMLQ8

KPC5742PK1AMLQ9/R

KPC5744PK1AMLQ5

KPC5744PK1AMLQ8

KPC5743PK1AMLQ5R

KP5742PFK1AKLQ5R

KPC5744PFK1AMLQ9

KPC5741PK1AKLQ8R

Production

Planned first shipment 06-Jul-2020

Anticipated Impact on Form, Fit, Function, Reliability or Quality

No impact on form, fit, function, reliability or quality.

Disposition of Old Products

Existing inventory will be shipped until depleted

Timing and Logistics

In compliance with JEDEC J-STD-046, your acknowledgement of this change is expected by 07-May-2020.

Remarks

Please contact NXP sales for custom part sample numbers.

Contact and Support

For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

For all Quality Notification content inquiries, please contact your local NXP Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

Name Rudy Mazlan

Position Product Engineer

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Customer Focus, Passion to Win.

NXP Quality Management Team.

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Changed Orderable Part#	Changed Part 12NC	Changed Part Number	Changed Part Description	Package Outline	Package Name	Status	Product Line
SPC5744PFK1AMLQ9	935316242557	SPC5744PFK1AMLQ9	C55G-PANTHER (Cut 2.2B)	SOT486-2	LQFP144	RFS	Vehicle Dynamics Solutions