



## Final Product Change Notification

202112015F01 : MPC5746C and MPC5748G Lead frame Design, Base Material and Kapton Tape Width Change for 176LQFP-EP

**Note:** This notice is NXP Company Proprietary.

**Issue Date:** Jan 13, 2022 **Effective date:** Apr 13, 2022

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### Change Category

<input type="checkbox"/> Wafer Fab Process	<input checked="" type="checkbox"/> Assembly Process	<input type="checkbox"/> Product Marking	<input type="checkbox"/> Test Process	<input type="checkbox"/> Design
<input type="checkbox"/> Wafer Fab Materials	<input checked="" type="checkbox"/> Assembly Materials	<input type="checkbox"/> Mechanical Specification	<input type="checkbox"/> Test Equipment	<input type="checkbox"/> Errata
<input type="checkbox"/> Wafer Fab Location	<input type="checkbox"/> Assembly Location	<input type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Location	<input type="checkbox"/> Electrical spec./Test coverage
<input type="checkbox"/> Firmware	<input type="checkbox"/> Other			

## PCN Overview

### Description

NXP Semiconductors announces the following changes for MPC5746C and MPC5748G on the 176LQFP-EP package assembled in NXP-ATKL (Kuala Lumpur) Malaysia assembly facility. The changes are listed below.

1. Lead frame design.
2. Lead frame base material.
3. Lead frame Kapton-tape width.
4. Dam bar cut sequence.

Please see attached summary presentation and qualification results.

Corresponding ZVEI Delta Qualification Matrix ID: : SEM-PA-02, SEM-PA-03, SEM-PA-17.

### Reason

The listed changes is to improve product quality and reliability of the 176LQFP-EP package assembled in NXP-ATKL (Kuala Lumpur) Malaysia assembly facility.

### Identification of Affected Products

Product identification does not change

### Product Availability

**Sample Information**

Samples are available from Jan 21, 2022

**Production**

Planned first shipment Apr 11, 2022

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

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No Impact on form, fit, function, reliability or quality

**Data Sheet Revision**

No impact to existing datasheet

**Disposition of Old Products**

Existing inventory will be shipped until depleted

**Timing and Logistics**

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In compliance with JEDEC J-STD-046, your acknowledgement of this change is expected by Feb 12, 2022.

**Contact and Support**

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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:

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<b>Position</b>	Product Engineer
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NXP Quality Management Team.

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SPC5747CFK0ACKU6	935380201557	SPC5747CFK0ACKU6	DUAL CORE, 4M FLASH, 512	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747CFK0AMKU6	935362973557	SPC5747CFK0AMKU6	DUAL CORE, 4M FLASH, 512	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747CGK0AVKU6	935346773557	SPC5747CGK0AVKU6	DUAL CORE, 4M FLASH, 51	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747CHK0AVKU6	935346774557	SPC5747CHK0AVKU6	DUAL CORE, 4M FLASH, 512	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747CK1MKU6	935315929557	SPC5747CK1MKU6	32 BIT,4MB FLASH,512 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747CK1MKU6R	935315929558	SPC5747CK1MKU6R	32 BIT,4MB FLASH,512 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747CK1VKU6	935320655557	SPC5747CK1VKU6	32 BIT,4MB FLASH,512 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747CK1VKU6R	935320655528	SPC5747CK1VKU6R	32 BIT,4MB FLASH,512 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747CSK0AMKU6	935362125557	SPC5747CSK0AMKU6	32 BIT, 4MB FLASH, 512K	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747GK0AVKU6	935401239557	SPC5747GK0AVKU6	DUAL CORE, 4M FLASH, 512	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747GK1CKU2	935316223557	SPC5747GK1CKU2	32 BIT,6MB FLASH,512 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747GK1MKU6	935316212557	SPC5747GK1MKU6	32 BIT,6MB FLASH,512 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747GK1MKU6R	935316212528	SPC5747GK1MKU6R	32 BIT,6MB FLASH,512 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747GSK1MKU6	935318739557	SPC5747GSK1MKU6	32 BIT,4MB FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747GSK1MKU6R	935318739528	SPC5747GSK1MKU6R	32 BIT,4MB FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747GK0AMKU6	935334309557	SPC5747GK0AMKU6	32 BIT,4MB FLASH,768 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747GK1MKU6	935329645557	SPC5747GK1MKU6	32 BIT,4MB FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5747GK1MKU6R	935329645528	SPC5747GK1MKU6R	32 BIT,4MB FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748CBK0AMKU6	935377222557	SPC5748CBK0AMKU6	DUAL CORE, 6M FLASH, 768	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748CBK0AVKU2	935347339557	SPC5748CBK0AVKU2	DUAL CORE, 6M FLASH, 768	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748CK0AMKU6	935371816557	SPC5748CK0AMKU6	DUAL CORE, 6M FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748CK1MKU6	935322271557	SPC5748CK1MKU6	32 BIT,6MB FLASH,768 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748CK1MKU6R	935322271528	SPC5748CK1MKU6R	32 BIT,6MB FLASH,768 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748CSK0ACKU2	935347159557	SPC5748CSK0ACKU2	32 BIT,6MB FLASH,768 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748CSK0AMKU6	935374032557	SPC5748CSK0AMKU6	32 BIT,6MB FLASH,768 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748CSK0AVKU2	935347161557	SPC5748CSK0AVKU2	32 BIT,6MB FLASH,768 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GBK0ACKU6	935401238557	SPC5748GBK0ACKU6	TRIPLE CORE, 6M FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GBK0AVKU6	935363679557	SPC5748GBK0AVKU6	TRIPLE CORE, 6M FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GHK0AMKU6	935326053557	SPC5748GHK0AMKU6	32 BIT,6MB FLASH,768 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GK0AMKU6	935364323557	SPC5748GK0AMKU6	TRIPLE CORE, 6M FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GK0AVKU6	935372813557	SPC5748GK0AVKU6	TRIPLE CORE, 6M FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GK1MKU6	935322387557	SPC5748GK1MKU6	32 BIT,6MB FLASH,768 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GK1MKU6R	935322387528	SPC5748GK1MKU6R	32 BIT,6MB FLASH,768 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GSK0AMKU6	935376855557	SPC5748GSK0AMKU6	TRIPLE CORE, 6M FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GSK0AVKU2	935368195557	SPC5748GSK0AVKU2	TRIPLE CORE, 6M FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GSK1MKU6	935318831557	SPC5748GSK1MKU6	32 BIT,6MB FLASH,768 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GSK1MKU6R	935318831528	SPC5748GSK1MKU6R	32 BIT,6MB FLASH,768 RAM	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GK0AMKU6	935362491557	SPC5748GK0AMKU6	TRIPLE CORE, 6M FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SPC5748GK0AVKU6	935382465557	SPC5748GK0AVKU6	TRIPLE CORE, 6M FLASH	H(L)QFP176	SOT766-9	RFS	No	BLAC
SP5746BHK1AMKU6R	935358748528	SP5746BHK1AMKU6R	SINGLE CORE, 3M FLASH	H(L)QFP176	SOT766-7	RFS	No	BLAC
SPC5747GK1CKU6	935320747557	SPC5747GK1CKU6	32 BIT,6MB FLASH,512 RAM	H(L)QFP176	SOT766-9	ASM	No	BLAC