



Product Change Notification / NTDO-11BSAL752

Date:

12-Apr-2022

Product Category:

Driver / Interface ICs

PCN Type:

Manufacturing Change

Notification Subject:

CCB 5092 Initial Notice: Qualification of MMT as an additional assembly site for selected HV5523K7, HV5623K7, HV5522K7 and HV5622K7 device families available in 44L WQFN (7x7x0.8mm) package.

Affected CPNs:

[NTDO-11BSAL752_Affected_CPN_04122022.pdf](#)

[NTDO-11BSAL752_Affected_CPN_04122022.csv](#)

Notification Text:

PCN Status:Initial Notification

PCN Type:Manufacturing Change

Microchip Parts Affected:Please open one of the files found in the Affected CPNs section.

Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls)

Description of Change:Qualification of MMT as an additional assembly site for selected HV5523K7, HV5623K7, HV5522K7 and HV5622K7 device families available in 44L WQFN (7x7x0.8mm) package.

Pre and Post Change Summary:

| | Pre Change | Post Change |
|--|------------|-------------|
| | | |

| Assembly Site | UTAC Thai Limited (UTL-1) LTD. (NSEB) | Carsem (Suzhou) (CARC) | UTAC Thai Limited (UTL-1) LTD. (NSEB) | Carsem (Suzhou) (CARC) | Microchip Technology Thailand (Branch) (MMT) |
|---------------------------------|--|------------------------------|--|------------------------------|---|
| Wire Material | CuPdAu | Au | CuPdAu | Au | CuPdAu |
| Die Attach Material | 8600 | QMI519 | 8600 | QMI519 | 3280 |
| Molding Compound Material | G700LTD | EME-G770HCD | G700LTD | EME-G770H CD | G700LTD |
| MSL information | MSL 1 | MSL 3 | MSL 1 | MSL 3 | MSL 1 |
| Lead-Frame Material | EFTEC-64T | A194 | EFTEC-64T | A194 | A194 |
| Lead-lock | Yes | No | Yes | No | Yes |
| Lead-frame Paddle Size | 217x 217 mils | 213x213 mils | 217x 217 mils | 213x213 mils | 213x213 mils |
| DAP Surface Prep | Ag Ring Plated | Bare Cu | Ag Ring Plated | Bare Cu | Bare Cu |
| Lead-Frame Drawing | See Pre and Post Change attachment comparison | | | | |

Impacts to Data Sheet:Yes – Updated POD.

| Units: mm | | CARC | | | NSEB | | | MMT | | |
|----------------------------|-----------|-----------|------|------|----------|-------|-------|----------|-------|-------|
| | | Min | Nom | Max | Min | Nom | Max | Min | Nom | Max |
| Number of Pins | N | 44 | | | 44 | | | 44 | | |
| Pitch | e | 0.50 BSC | | | 0.50 BSC | | | 0.50 BSC | | |
| Overall height | A | 0.70 | 0.75 | 0.80 | 0.70 | 0.75 | 0.80 | 0.70 | 0.75 | 0.80 |
| Stand off (\$) | A1 | 0.00 | 0.02 | 0.05 | 0.00 | - | 0.05 | 0.00 | - | 0.05 |
| Terminal Thickness | A3 | 0.203 REF | | | 0.195 | 0.203 | 0.261 | 0.195 | 0.203 | 0.261 |
| Overall Length | D | 7.00 BSC | | | 6.90 | 7.00 | 7.10 | 6.90 | 7.00 | 7.10 |
| Exposed Pad Length | D2 | 5.00 | 5.15 | 5.10 | 5.10 | 5.20 | 5.30 | 5.10 | 5.20 | 5.30 |
| Overall Width | E | 7.00 BSC | | | 6.90 | 7.00 | 7.10 | 6.90 | 7.00 | 7.10 |
| Exposed Pad Width | E2 | 5.00 | 5.15 | 5.10 | 5.10 | 5.20 | 5.30 | 5.10 | 5.20 | 5.30 |
| Terminal Width | b | 0.18 | 0.25 | 0.30 | 0.20 | 0.25 | 0.30 | 0.18 | 0.23 | 0.28 |
| Terminal Length | L | 0.45 | 0.55 | 0.65 | 0.49 | 0.50 | 0.51 | 0.59 | 0.64 | 0.69 |
| Pullback | L1 | - | - | - | - | - | - | - | - | - |
| Mold Angle | Ø | - | - | - | - | - | - | - | - | - |
| Terminal to Exposed Pad | K | 0.20 | - | - | - | 0.40 | - | - | 0.26 | - |

Change Impact:None

Reason for Change:To improve on-time delivery performance by qualifying MMT as an additional assembly site.

Change Implementation Status:In Progress

Estimated Qualification Completion Date:June 2022

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

Time Table Summary:

| | April 2022 | | | | | > | June 2022 | | | | |
|--------------------------|------------|--------|--------|--------|--------|---|-----------|--------|--------|--------|----|
| Workweek | 1 4 | 1 5 | 1 6 | 1 7 | 1 8 | | 2 3 | 2 4 | 2 5 | 2 6 | 27 |
| Initial PCN Issue Date | | | x | | | | | | | | |
| Qual Report Availability | | | | | | | | | x | | |
| Final PCN Issue Date | | | | | | | | | x | | |

Method to Identify Change:Traceability code

Qualification Plan:Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.

Revision History:April 12, 2022: Issued initial notification.

The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachments:

PCN_NTDO-11BSAL752_Pre and Post Change_Summary.pdf
PCN_NTDO-11BSAL752_Qual_Plan.pdf

Please contact your local **Microchip sales office** with questions or concerns regarding this notification.

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