

**Product Change Notification - JAON-27QDPG251**

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**Date:**

26 Jun 2020

**Product Category:**

16-Bit - Microcontrollers and Digital Signal Controllers; 32-bit Microcontrollers

**Affected CPNs:****Notification subject:**

CCB 4156 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire for selected products available in 64L QFN (9x9x0.9mm) package at MTAI assembly site.

**Notification text:****PCN Status:**

Final notification

**PCN Type:**

Manufacturing Change

**Microchip Parts Affected:**

Please open one of the icons found in the Affected CPNs section above.

**NOTE:** For your convenience Microchip includes identical files in two formats (.pdf and .xls)**Description of Change:**

Qualification of palladium coated copper with gold flash (CuPdAu) bond wire for selected products available in 64L QFN (9x9x0.9mm) package at MTAI assembly site.

**Pre Change:**

Using gold (Au) bond wire

**Post Change:**

Using palladium coated copper with gold flash (CuPdAu) bond wire

**Pre and Post Change Summary:**

|                               | <b>Pre Change</b>                          | <b>Post Change</b>                         |
|-------------------------------|--|--|
| <b>Assembly Site</b>          | Microchip Technology<br>Thailand HQ (MTAI) | Microchip Technology Thailand<br>HQ (MTAI) |
| <b>Lead frame material</b>    | C194                                       | C194                                       |
| <b>Bond wire material</b>     | Au wire                                    | CuPdAu wire                                |
| <b>Die attach material</b>    | 3280                                       | 3280                                       |
| <b>Mold compound material</b> | G700LTD                                    | G700LTD                                    |

**Impacts to Data Sheet:**

None

**Change Impact:**

None

**Reason for Change:**

To improve manufacturability by qualifying palladium coated copper with gold flash (CuPdAu) bond wire at MTAI assembly site.

**Change Implementation Status:**

In Progress

**Estimated First Ship Date:**



July 26, 2020 (date code: 2031)

NOTE: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

**Time Table Summary:**

| Workweek                      | March 2020 |    |    |    | -> | June 2020 |    |    |    |    | July 2020 |    |    |    |
|-------------------------------|------------|----|----|----|----|-----------|----|----|----|----|-----------|----|----|----|
|                               | 10         | 11 | 12 | 13 |    | 23        | 24 | 25 | 26 | 27 | 28        | 29 | 30 | 31 |
| Initial PCN Issue Date        | X          |    |    |    |    |           |    |    |    |    |           |    |    |    |
| Qual Report Availability      |            |    |    |    |    |           |    |    | X  |    |           |    |    |    |
| Final PCN Issue Date          |            |    |    |    |    |           |    |    | X  |    |           |    |    |    |
| Estimated Implementation Date |            |    |    |    |    |           |    |    |    |    |           |    | X  |    |

**Method to Identify Change:**

Traceability code

**Qualification Report:**

Please open the attachments included with this PCN labeled as PCN\_#\_Qual Report.

**Revision History:**

**March 3, 2020:** Issued initial notification.

**June 26, 2020:** Issued final notification. Attached the qualification report. Updated the affected CPN list. Provided estimated first ship date to be on July 26, 2020.

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

**Attachment(s):**

[PCN\\_JAON-27QDPG251\\_Qual\\_Report.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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If you wish to [change your PCN profile, including opt out](#), please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

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DSPIC33EP512GP806-E/MR  
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PIC24EP512GP806-E/MR  
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DSPIC33EP512GM706-E/MR

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DSPIC33EP128GM706-H/MR  
DSPIC33EP512GM706T-I/MRC01  
DSPIC33EP128GM706T-I/MR  
DSPIC33EP512GM306T-I/MR  
DSPIC33EV128GM006-E/MR  
DSPIC33EV128GM106-E/MR  
DSPIC33EV64GM006-E/MR  
DSPIC33EV64GM106-E/MR  
DSPIC33EV128GM006-I/MR  
DSPIC33EV128GM106-I/MR  
DSPIC33EV64GM006-I/MR  
DSPIC33EV64GM106-I/MR  
DSPIC33EV128GM006-H/MR  
DSPIC33EV128GM106-H/MR  
DSPIC33EV64GM006-H/MR  
DSPIC33EV64GM106-H/MR  
DSPIC33EV128GM006T-I/MR  
DSPIC33EV128GM106T-I/MR  
DSPIC33EV64GM006T-I/MR  
DSPIC33EV64GM106T-I/MR  
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DSPIC33EV256GM106-E/MR  
DSPIC33EV256GM006-I/MR  
DSPIC33EV256GM106-I/MR  
DSPIC33EV256GM006-H/MR  
DSPIC33EV256GM106-H/MR  
DSPIC33EV256GM006T-I/MR  
DSPIC33EV256GM106T-I/MR  
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PIC32MX534F064H-I/MR  
PIC32MX564F064H-I/MR  
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PIC32MX664F064H-I/MR  
PIC32MX764F128H-I/MR  
PIC32MX564F128H-V/MR  
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PIC24FJ128GB206-I/MR  
PIC24FJ256GB206T-I/MR  
PIC24FJ64GA306-I/MR  
PIC24FJ128GA306-I/MR  
PIC24FJ64GA306T-I/MR024  
PIC24FJ64GA306T-I/MR  
PIC24FJ128GA306T-I/MR  
PIC24FJ256GA406-I/MR  
PIC24FJ128GA406-I/MR  
PIC24FJ64GA406-I/MR  
PIC24FJ256GB406-I/MR  
PIC24FJ128GB406-I/MR  
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PIC32MX570F512HT-I/MR  
PIC32MX270F512H-50I/MR021  
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PIC32MX270F512HT-50I/MR022  
PIC32MX150F256HT-50I/MR  
PIC32MX170F512HT-50I/MR  
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PIC32MX120F064HT-50I/MR  
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PIC32MX230F128HT-50I/MR  
PIC32MX270F512HT-50I/MR  
PIC32MX550F256HT-50I/MR  
PIC32MX530F128HT-50I/MR  
PIC32MX570F512HT-50I/MR  
PIC32MX230F128H-I/MRJ21  
PIC32MX120F064HT-I/MRH21  
PIC32MX230F128HT-I/MRJ21  
PIC24FJ64GC006-I/MR  
PIC24FJ128GC006-I/MR  
PIC24FJ128GC006T-I/MR





**QUALIFICATION REPORT SUMMARY**  
RELIABILITY LABORATORY

**PCN #: JAON-27QDPG251**

**Date**  
**June 11, 2020**

**Qualification of palladium coated copper with gold flash (CuPdAu) bond wire for selected products available in 64L QFN (9x9x0.9mm) package at MTAI assembly site.**



**MICROCHIP**

**PACKAGE QUALIFICATION REPORT**

**Purpose** Qualification of palladium coated copper with gold flash (CuPdAu) bond wire for selected products available in 64L QFN (9x9x0.9mm) package at MTAI assembly site.

**CCB No.** 4156  
**CN** ES338496  
**QUAL ID** R2000128 Rev.A  
**MP CODE** TLAk17R4XQDB  
**Part No.** DSPIC33EP256GM306-I/MR  
**Bonding No.** BDM-002348 Rev. A

**Package**

**Type** 64L QFN  
**Package size** 9x9x0.9 mm

**Lead Frame**

**Paddle size** 264 x 264 mils  
**Material** C194  
**Surface** Bare Cu DAP  
**Process** Etched  
**Lead Lock** Yes  
**Part Number** 10106409

**Material**

**Epoxy** 3280  
**Wire** CuPdAu wire  
**Mold Compound** G700LTD  
**Plating Composition** Matte Tin

# PACKAGE QUALIFICATION REPORT

## Manufacturing Information

| Assembly Lot No.  | Wafer No.         | Date Code |
|-------------------|-------------------|-----------|
| MTAI204702400.000 | TC11920432228.110 | 2008J40   |
| MTAI204702401.000 | TC11920432228.120 | 2008J41   |
| MTAI204702849.000 | TC11920432228.110 | 2008JSU   |

## Result

Pass  Fail  \_\_\_\_\_

64L QFN (9x9x0.9 mm) assembled by MTAI pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 1 at 260°C reflow temperature per IPC/JEDEC J-STD-020E standard.

# PACKAGE QUALIFICATION REPORT

| Test Number<br>(Reference)  | Test Condition  | Standard<br>/ Method   | Qty.<br>(Acc.) | Def/SS   | Result      | Remarks                 |
|---|---|--|----------------|--|-------------|-------------------------|
| <u>Precondition</u><br><u>Prior Perform</u><br><u>Reliability Tests</u><br>(At MSL Level 1) | <p><b>Electrical Test:</b> +25°C and 85°C<br/>System: J750</p> <p>Bake 150°C, 24 hrs<br/>System: CHINEE</p> <p>85°C/85%RH Moisture Soak 168 hrs.<br/>System: TABAI ESPEC Model PR-3SPH</p> <p>3x Convection-Reflow 265°C max<br/>System: Vitronics Soltec MR1243</p> <p><b>Electrical Test:</b> +25°C and 85°C<br/>System: J750</p> | <p>JESD22-<br/>A113</p> <p>JIP/<br/>IPC/JEDE<br/>C J-STD-<br/>020E</p> | <p>693(0)</p>  | <p>693</p> <p>693</p> <p>693</p> <p>693</p> <p>0/693</p> | <p>Pass</p> | <p>Good<br/>Devices</p> |

# PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition  | Standard/ Method | Qty. (Acc.) | Def/SS. | Result | Remarks   |
|-------------------------|---|------------------|-------------|---------|--------|---|
| <b>Temp Cycle</b>       | <b>Stress Condition:</b><br>-65°C to +150°C, 500 Cycles<br>System: TABAI ESPEC TSA-70H<br><br><b>Electrical Test: + 85°C</b><br>System: J750                                      | JESD22-A104      |             | 231     |        | Parts had been pre-conditioned at 260°C<br><br>77 units / lot |
|                         | <b>Stress Condition:</b><br>-65°C to +150°C, 1000 Cycles<br>System: TABAI ESPEC TSA-70H<br><br><b>Electrical Test: +85°C</b><br>System: J750                                      |                  | 231(0)      | 0/231   | Pass   |   |
|                         | <b>Bond Strength:</b><br>Wire Pull (> 2.5 grams)<br>Bond Shear (>15.00 grams)   |                  | 15 (0)      |         | Pass   |   |
|                         |   |                  | 15 (0)      | 0/15    | Pass   |   |
| <b>UNBIASED-HAST</b>    | <b>Stress Condition:</b><br>+130°C/85%RH, 96 hrs.<br>System: HAST 6000X<br><br><b>Electrical Test: +25°C</b><br>System: J750  | JESD22-A118      |             | 231     |        | Parts had been pre-conditioned at 260°C<br><br>77 units / lot |
|                         | <b>Stress Condition:</b><br>+130°C/85%RH, 192 hrs.<br>System: HAST 6000X<br><br><b>Electrical Test: + 25°C</b><br>System: J750  |                  | 231(0)      | 0/231   | Pass   |   |
|                         |   |                  | 231(0)      | 0/231   | Pass   |   |
| <b>HAST</b>             | <b>Stress Condition:</b><br>+130°C/85%RH, 96 hrs.<br><b>Bias Volt: 3.6Volts, 1.98 Volts</b><br>System: HAST 6000X<br><br><b>Electrical Test: + 25°C and 85°C</b><br>System: J750  | JESD22-A110      |             | 231     |        | Parts had been pre-conditioned at 260°C<br><br>77 units / lot |
|                         | <b>Stress Condition:</b><br>+130°C/85%RH, 192 hrs.<br><b>Bias Volt: 3.6Volts, 1.98 Volts</b><br>System: HAST 6000X<br><br><b>Electrical Test: + 25°C and 85°C</b><br>System: J750 |                  | 231(0)      | 0/231   | Pass   |   |
|                         |   |                  | 231(0)      | 0/231   | Pass   |   |

# PACKAGE QUALIFICATION REPORT

| Test Number<br>(Reference)                   | Test Condition   | Standard/<br>Method  | Qty.<br>(Acc.)  | Def/SS. | Result | Remarks  |
|--|--|----------------------|-----------------|---------|--------|----------|
| <b>High<br/>Temperature<br/>Storage Life</b> | <b>Stress Condition:</b><br>Bake 175°C, 500 hrs<br>System: SHEL LAB  | JESD22-<br>A103      |                 | 45      |        | 45 units |
|  | <b>Electrical Test:</b> +25°C and 85°C<br>System: J750               |                      | 45(0)           | 0/45    | Pass   |          |
|  | <b>Stress Condition:</b><br>Bake 175°C, 1000 hrs<br>System: SHEL LAB |                      |                 | 45      |        |          |
|  | <b>Electrical Test:</b> +25°C and 85°C<br>System: J750               |                      | 45 (0)          | 0/45    | Pass   |          |
| <b>Physical<br/>Dimensions</b>               | Physical Dimension,<br>10 units from 1 lot                           | JESD22-<br>B100/B108 | 30(0)<br>Units  | 0/30    | Pass   |          |
| <b>Bond Strength<br/>Data Assembly</b>       | Wire Pull (> 2.5 grams)  | M2011                | 30 (0)<br>Wires | 0/30    | Pass   |          |
|  | Bond Shear (>15.00 grams)  | JESD22-<br>B116      | 30 (0)<br>bonds | 0/30    | Pass   |          |