

**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

|                             |   |                                      |
|-----------------------------|---|--------------------------------------|
| <b>1.1 Company</b>          |    | STMicroelectronics International N.V |
| <b>1.2 PCN No.</b>          | AMS/18/10764  |                                      |
| <b>1.3 Title of PCN</b>     | Qualification of a new Matrix density lead frame and a new material set in ST Shenzhen for products assembled in PPAK package |                                      |
| <b>1.4 Product Category</b> | See product list  |                                      |
| <b>1.5 Issue date</b>       | 2018-03-02  |                                      |

**2. PCN Team**

|                                  |                            |
|----------------------------------|----------------------------|
| <b>2.1 Contact supplier</b>      |                            |
| <b>2.1.1 Name</b>                | MARCELI SMIALKOWSKI        |
| <b>2.1.2 Phone</b>               | +44 1628896277             |
| <b>2.1.3 Email</b>               | marceli.smialkowski@st.com |
| <b>2.2 Change responsibility</b> |                            |
| <b>2.2.1 Product Manager</b>     | Lorenzo NASO               |
| <b>2.1.2 Marketing Manager</b>   | Marcello SAN BIAGIO        |
| <b>2.1.3 Quality Manager</b>     | Jean-Marc BUGNARD          |

**3. Change**

|                     |                           |                                   |
|---------------------|---------------------------|-----------------------------------|
| <b>3.1 Category</b> | <b>3.2 Type of change</b> | <b>3.3 Manufacturing Location</b> |
| Materials           | (Not Defined)             | ST Shenzhen                       |

**4. Description of change**

|  |  |  |
|--|--|--|
|  | <b>Old</b>                                   | <b>New</b>                                   |
| <b>4.1 Description</b>   | - Standard density lead-frame<br>- Gold wire | - Matrix density lead-frame<br>- Copper wire |
| <b>4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?</b> | No impact                                    |  |

**5. Reason / motivation for change**

|                             |  |
|-----------------------------|--|
| <b>5.1 Motivation</b>       | This change will allow us to increase efficiency and production capacity. Customers demand will be better supported. |
| <b>5.2 Customer Benefit</b> | SERVICE IMPROVEMENT  |

**6. Marking of parts / traceability of change**

|                        |                         |
|------------------------|-------------------------|
| <b>6.1 Description</b> | New finished good codes |
|------------------------|-------------------------|

**7. Timing / schedule**

|  |              |
|--|--------------|
| <b>7.1 Date of qualification results</b>   | 2018-03-01   |
| <b>7.2 Intended start of delivery</b>      | 2018-06-08   |
| <b>7.3 Qualification sample available?</b> | Upon Request |

**8. Qualification / Validation**

|   |   |                   |            |
|---|---|-------------------|------------|
| <b>8.1 Description</b>                                    | 10764 REL-6088-95-W-18-PPAK-UA63-UX56.pdf |                   |            |
| <b>8.2 Qualification report and qualification results</b> | Available (see attachment)                | <b>Issue Date</b> | 2018-03-02 |

**9. Attachments (additional documentations)**

|   |
|---|
| 10764 Public product.pdf<br>10764 REL-6088-95-W-18-PPAK-UA63-UX56.pdf |
|---|

| 10. Affected parts      |                         |                          |
|-------------------------|-------------------------|--------------------------|
| 10.1 Current            |                         | 10.2 New (if applicable) |
| 10.1.1 Customer Part No | 10.1.2 Supplier Part No | 10.1.2 Supplier Part No  |
|                         | LF50ABPT-TR             |                          |

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## Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

**PCN Title** : Qualification of a new Matrix density lead frame and a new material set in ST Shenzhen for products assembled in PPAK package

**PCN Reference** : AMS/18/10764

**Subject** : Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

|              |              |             |
|--------------|--------------|-------------|
| LF18CPT-TR   | LDF18PT-TR   | LF18ABPT-TR |
| LDF25PT-TR   | LF50CPT-TR   | LD29150PTR  |
| LDF33PT-TR   | LD29080PT33R | LDL112PT-TR |
| LD39300PT-R  | LF33CPT-TR   | LD39150PT-R |
| LDFPT-TR     | LD39080PT-R  | LDFMPT-TR   |
| LF90CPT-TR   | LF25CPT-TR   | LF50ABPT-TR |
| LD29150PT50R | LF85CPT-TR   | LD29080PTR  |
| LDFM50PT-TR  |              |             |



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