



## Product Change Notification Form (PCN)

FRM-000621 - Rev 2

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------|----------------|--------------------|--------------|
| <b>TRACKING #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PCN-000064                                        | <b>TYPE OF CHANGE</b> | Major          | <b>DATE OF PCN</b> | May 19, 2023 |
| <b>DESCRIPTION OF CHANGE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | GaN wafer fabrication manufacturing site transfer |                       |                |                    |              |
| <b>DETAILS OF CHANGE</b><br><br>Dear Customer:<br><br>You are receiving this notification because of an upcoming 5M change for LEDs you have purchased in the past 24 months. <ul style="list-style-type: none"><li>- The manufacturing (wafer fab) of LED chips used in Luminus GaN products (Blue, UV, White, Green, Phosphor Converted colors) will be transferred from Xiamen, China to a nearby state-of-the-art factory in Nanan, China.</li><li>- This change is strictly limited to chip wafer processing as there is no change in the product epitaxial structure and assembly (packaging) process.</li></ul> |                                                   |                       |                |                    |              |
| <b>REASON FOR CHANGE</b> <ul style="list-style-type: none"><li>- Bring the affected production line to the latest manufacturing standards: Automation (reduction of manual intervention), environment cleanliness, best practices in terms of logistics and materials management, improvement of controls and traceability.</li><li>- Increase capacity to better support future demand.</li></ul>                                                                                                                                                                                                                     |                                                   |                       |                |                    |              |
| <b>AFFECTED PRODUCT LIST(See Appendix for full ordering part numbers List)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                   |                       |                |                    |              |
| PTM-40X-B-L34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                   |                       | SFT-20-B-F35   |                    |              |
| PTM-40X-BP-L34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                   |                       | SFT-20-BP-F35  |                    |              |
| PTM-40X-CG-L34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                   |                       | SFT-20-CG-F35  |                    |              |
| SFM-06X-RAB-J30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |                       | SFT-10-B-F35   |                    |              |
| PT-26-B-L36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                   |                       | SFT-10-BP-F35  |                    |              |
| PT-26-BP-L36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |                       | SFT-10-CG-F35  |                    |              |
| PT-26-CG-L36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |                       | SFT-10-WCH-F35 |                    |              |
| PTM-40-B-L32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |                       | CFT-90-WCS-X11 |                    |              |
| PTM-40-B-L34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |                       | CFT-90-WDH-X11 |                    |              |
| PTM-40-BP-L34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                   |                       | CFT-90-WDS-X11 |                    |              |
| PTM-40-CG-L34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                   |                       | CFT-90-WSS-X11 |                    |              |



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| SFT-14-B-F35                                                                                          | PTO-26-BP-L96                                                                                                                                                                                                                                                    |               |
| SFT-14-BP-F35                                                                                         |                                                                                                                                                                                                                                                                  |               |
| SFT-14-CG-F35                                                                                         |                                                                                                                                                                                                                                                                  |               |
| <b>ANTICIPATED IMPACT ON FORM FIT, FUNCTION, QUALITY OR RELIABILITY</b>                               |                                                                                                                                                                                                                                                                  |               |
| - The change of manufacturing location has no impact on form, fit, function, reliability and quality. |                                                                                                                                                                                                                                                                  |               |
| <b>SCHEDULE</b>                                                                                       |                                                                                                                                                                                                                                                                  |               |
| <b>Deliverable</b>                                                                                    | <b>Status</b>                                                                                                                                                                                                                                                    | <b>Result</b> |
| N/A                                                                                                   |                                                                                                                                                                                                                                                                  |               |
|                                                                                                       |                                                                                                                                                                                                                                                                  |               |
| <b>DATE OF AVAILABILITY OF QUALIFICATION DATA</b>                                                     | May 31, 2023                                                                                                                                                                                                                                                     |               |
| <b>DATE OF AVAILABILITY OF QUALIFICATION SAMPLES</b>                                                  | Qualification samples are available upon request and should be requested within 30 days of this notice in order to be delivered before implementation.                                                                                                           |               |
| <b>METHOD OF IDENTIFYING CHANGED PRODUCT</b>                                                          | Assembly lot information marked on packaging labels allows traceability to die wafer source for all products.<br><br>For products assembled on serialized metal core-boards, traceability is possible at the device level.                                       |               |
| <b>PLACE LAST PURCHASE ORDER BY</b>                                                                   | Not applicable.                                                                                                                                                                                                                                                  |               |
| <b>DATE OF IMPLEMENTATION</b>                                                                         | Products affected by these changes might start shipping on August 1, 2023 or earlier if approved by the customer. Due to normal manufacturing transition considerations, products from both sites might be shipping concurrently for an extended period of time. |               |

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| <b>TO BE FILLED BY CUSTOMER</b>                                                |  |
| <b>Date of PCN Acknowledgement</b>                                             |  |
| <b>Name /Title</b>                                                             |  |
| <b>Signature</b>                                                               |  |
| - Please acknowledge receipt of the PCN within 30 days of delivery of the PCN. |  |

- Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.

## Appendix : Affected Product List ( Full ordering part numbers)

| AFFECTED PRODUCT LIST ( Full ordering part numbers ) |                       |
|------------------------------------------------------|-----------------------|
| PTM-40X-B-L34-EPE                                    | SFT-10-B-F35-EPC      |
| PTM-40X-BP-L34-EPE                                   | SFT-10-B-F35-EPD      |
| PTM-40X-BP-L34-EPF                                   | SFT-10-BP-F35-EPD     |
| PTM-40X-CG-L34-MPG                                   | SFT-10-CG-F35-MPD     |
| PTM-40X-CG-L34-MPH                                   | SFT-10-CG-F35-MPE     |
| SFM-06X-RAB-J30-MPA                                  | SFT-10-CG-F35-MPF     |
| SFM-06X-RAB-J30-MPB                                  | SFT-10-CG-F35-MPH     |
| SFM-06X-RAB-J30-MPZ                                  | SFT-10-WCH-F35-SC651  |
| PT-26-B-L36-EPD                                      | CFT-90-WCS-X11-CP01OL |
| PT-26-B-L36-EPD300                                   | CFT-90-WCS-X11-CP01WF |
| PT-26-B-L36-EPE                                      | CFT-90-WCS-X11-UA600  |
| PT-26-B-L36-EPE300                                   | CFT-90-WCS-X11-UA601  |
| PT-26-B-L36-EPF                                      | CFT-90-WCS-X11-UB601  |
| PT-26-BP-L36-EPE                                     | CFT-90-WCS-X11-VA600  |
| PT-26-BP-L36-EPE300                                  | CFT-90-WCS-X11-VA601  |
| PT-26-BP-L36-EPF                                     | CFT-90-WCS-X11-VB600  |
| PT-26-BP-L36-EPF300                                  | CFT-90-WCS-X11-VB601  |
| PT-26-CG-L36-MPF                                     | CFT-90-WCS-X11-WA600  |
| PT-26-CG-L36-MPF300                                  | CFT-90-WCS-X11-WA601  |
| PT-26-CG-L36-MPG                                     | CFT-90-WDH-X11-CP01EX |



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|----------------------|----------------------|
| PT-26-CG-L36-MPG300  | CFT-90-WDH-X11-SA257 |
| PTM-40-B-L32-EPD     | CFT-90-WDH-X11-SA260 |
| PTM-40-B-L34-EPE     | CFT-90-WDH-X11-SA261 |
| PTM-40-B-L34-EPG     | CFT-90-WDH-X11-SA557 |
| PTM-40-BP-L34-EPE    | CFT-90-WDH-X11-SA560 |
| PTM-40-BP-L34-EPG    | CFT-90-WDH-X11-SB257 |
| PTM-40-CG-L34-MPG    | CFT-90-WDH-X11-SB260 |
| SFT-20-B-F35-EPC     | CFT-90-WDH-X11-SB261 |
| SFT-20-B-F35-EPD     | CFT-90-WDH-X11-SB560 |
| SFT-20-B-F35-EPE     | CFT-90-WDH-X11-TA261 |
| SFT-20-B-F35-EPF     | CFT-90-WDS-X11-UA500 |
| SFT-20-BP-F35-EPF    | CFT-90-WDS-X11-UA501 |
| SFT-20-CG-F35-MPB    | CFT-90-WDS-X11-UA502 |
| SFT-20-CG-F35-MPC    | CFT-90-WDS-X11-UB500 |
| SFT-20-CG-F35-MPF    | CFT-90-WDS-X11-UB501 |
| SFT-20-CG-F35-MPG    | CFT-90-WDS-X11-VA500 |
| SFT-14-B-F35-EPD300  | CFT-90-WDS-X11-VB500 |
| SFT-14-B-F35-EPE     | CFT-90-WDS-X11-VB501 |
| SFT-14-B-F35-EPE300  | CFT-90-WSS-X11-TB701 |
| SFT-14-B-F35-EPF     | CFT-90-WSS-X11-UA701 |
| SFT-14-BP-F35-EPF    | CFT-90-WSS-X11-UA755 |
| SFT-14-BP-F35-EPF300 | CFT-90-WSS-X11-UB700 |
| SFT-14-CG-F35-MPC    | CFT-90-WSS-X11-UB900 |
| SFT-14-CG-F35-MPF    | CFT-90-WSS-X11-VA700 |
| SFT-14-CG-F35-MPF300 | CFT-90-WSS-X11-VB700 |
| SFT-14-CG-F35-MPG    | PTO-26-BP-L96-EPE    |
| SFT-14-CG-F35-MPG300 |                      |