

# Product / Process Change Notification



N° 2016-051-A

Dear Customer,

Please find attached our INFINEON Technologies PCN:

## Introduction of Infineon's Front End Kulim, Malaysia as second source wafer production location affecting the TLx496x Hall Switch Family

Important information for your attention:

- Please respond to this PCN by indicating your decision on the approval form, sign it and return to your sales partner before **23. July 2019**.
- Infineon aligns with the widely-recognized JEDEC STANDARD "JESD46", which stipulates:  
"Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change."

Your prompt reply will help Infineon Technologies to assure a smooth and well executed transition. If Infineon does not hear from your side by the due date, we will assume your full acceptance to this proposed change and its implementation.

Your attention and response to this matter is greatly appreciated.

Infineon Technologies AG  
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Chairman of the Supervisory Board: Dr. Eckart Süner  
Management Board: Dr. Reinhard Ploss (CEO), Dr. Helmut Gassel, Jochen Hanebeck, Dr. Sven Schneider  
Registered Office: Neubiberg  
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► **Products affected:** Please refer to attached affected product list 1\_cip16051\_a

► **Detailed Change Information:**

**Subject:** Introduction of Infineon's Front End Kulim, Malaysia as second source wafer production location affecting the TLx496x Hall Switch Family

**Reason:** Capacity increase and secure supply.

<b>Description:</b>	<b><u>Old</u></b>	<b><u>New</u></b>
<b>Wafer production location:</b>	<ul style="list-style-type: none"> <li>■ Infineon Regensburg, Germany</li> </ul>	<ul style="list-style-type: none"> <li>■ Infineon Regensburg, Germany and Infineon Kulim, Malaysia</li> </ul>
<b>Wafer test location:</b>	<ul style="list-style-type: none"> <li>■ Infineon Regensburg, Germany</li> </ul>	<ul style="list-style-type: none"> <li>■ Infineon Regensburg, Germany and Infineon Kulim, Malaysia</li> </ul>
<b>Wafer dicing location:</b>	<ul style="list-style-type: none"> <li>■ Infineon Regensburg, Germany</li> </ul>	<ul style="list-style-type: none"> <li>■ Infineon Regensburg, Germany and Infineon Kulim, Malaysia and Infineon Wuxi, China</li> </ul>
<b>Wafer dicing process:</b>	<ul style="list-style-type: none"> <li>■ Laser stealth dicing</li> </ul>	<ul style="list-style-type: none"> <li>■ Laser stealth dicing and mechanical dicing, affecting following products only:                             <ul style="list-style-type: none"> <li>- TLx4963 in SOT23</li> <li>- TLx4965 in SOT23</li> <li>- TLE496x in SC59 and PSSO</li> </ul> </li> </ul>
<b>Final wafer thickness:</b>	<ul style="list-style-type: none"> <li>■ 150µm</li> </ul>	<ul style="list-style-type: none"> <li>■ 150µm and 185µm, affecting following products only:                             <ul style="list-style-type: none"> <li>- TLx4963 in SOT23</li> <li>- TLx4965 in SOT23</li> </ul> </li> <li>■ 150µm and 210µm, affecting following products only:                             <ul style="list-style-type: none"> <li>- TLE496x in SC59 and PSSO</li> </ul> </li> </ul>
<b>Distance between chip and package in data sheet:</b>	Considering 150µm wafer thickness from site Regensburg: <ul style="list-style-type: none"> <li>■ TLE496x in PSSO: 0.64±0.05 mm</li> <li>■ TLE496x in SC59: 0.515±0.05 mm</li> <li>■ TLx4963 and TLx4965 in SOT23: 0.385±0.05 mm</li> </ul>	Considering wafer thicknesses from both production sites: <ul style="list-style-type: none"> <li>■ TLE496x in PSSO: 0.61±0.08 mm</li> <li>■ TLE496x in SC59: 0.55±0.09 mm</li> <li>■ TLx4963 and TLx4965 in SOT23: 0.37±0.07 mm</li> </ul>

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- ▶ **Product Identification:** Traceability is ensured by lot number.
  
- ▶ **Impact of Change:**  
No change in form, fit and function.  
No impact expected on parameters and reliability.  
  
For automotive products only: DeQuMa-ID: SEM-DS-01, SEM-PW-03, SEM-PW-13, SEM-PA-19 and SEM-TF-01
  
- ▶ **Attachments:** Affected product list    1\_cip16051\_a
  
- ▶ **Time Schedule:**
  - Final qualification report: Available on demand
  - First samples available: Available on request
  - Intended start of delivery: 30-November-2019

If you have any questions, please do not hesitate to contact your local Sales office.

**PCN N°2016-051-A**

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Sales Name	SP number	OPN	Package
TLE4961-1K	SP000848008	TLE49611KXTSA1	PG-SC59-3
TLE4961-1L	SP000848038	TLE49611LHALA1	PG-SSO-3
TLE4961-1M	SP000923322	TLE49611MXTSA1	PG-SOT23-3
TLE4961-1M	SP001222068	TLE49611MXTMA1	PG-SOT23-3
TLE4961-2M	SP000997954	TLE49612MXTSA1	PG-SOT23-3
TLE4961-2M	SP001328230	TLE49612MXTMA1	PG-SOT23-3
TLE4961-3K	SP000848004	TLE49613KXTSA1	PG-SC59-3
TLE4961-3L	SP000848034	TLE49613LHALA1	PG-SSO-3
TLE4961-3M	SP000909960	TLE49613MXTSA1	PG-SOT23-3
TLE4961-3M	SP001222072	TLE49613MXTMA1	PG-SOT23-3
TLE4961-4M	SP001042410	TLE49614MXTSA1	PG-SOT23-3
TLE4961-4M	SP001328234	TLE49614MXTMA1	PG-SOT23-3
TLE4961-5K	SP000910192	TLE49615KXTSA1	PG-SC59-3
TLE4961-5M	SP001013854	TLE49615MXTSA1	PG-SOT23-3
TLE4961-5M	SP001222078	TLE49615MXTMA1	PG-SOT23-3
TLE4963-1M	SP000930182	TLE49631MXTSA1	PG-SOT23-3
TLE4963-1M	SP001430474	TLE49631MXTMA1	PG-SOT23-3
TLE4963-2M	SP000978614	TLE49632MXTSA1	PG-SOT23-3
TLE4963-2M	SP001430440	TLE49632MXTMA1	PG-SOT23-3
TLE4964-1K	SP000848000	TLE49641KXTSA1	PG-SC59-3
TLE4964-1K	SP002296728	TLE49641KXTMA1	PG-SC59-3
TLE4964-1M	SP000923326	TLE49641MXTSA1	PG-SOT23-3
TLE4964-1M	SP001328238	TLE49641MXTMA1	PG-SOT23-3
TLE4964-2K	SP000847996	TLE49642KXTSA1	PG-SC59-3
TLE4964-2K	SP002296732	TLE49642KXTMA1	PG-SC59-3
TLE4964-2M	SP000923330	TLE49642MXTSA1	PG-SOT23-3
TLE4964-2M	SP001222084	TLE49642MXTMA1	PG-SOT23-3
TLE4964-3K	SP000910188	TLE49643KXTSA1	PG-SC59-3
TLE4964-3M	SP001013860	TLE49643MXTSA1	PG-SOT23-3
TLE4964-3M	SP001328242	TLE49643MXTMA1	PG-SOT23-3
TLE4964-4M	SP001042414	TLE49644MXTSA1	PG-SOT23-3
TLE4964-4M	SP001222088	TLE49644MXTMA1	PG-SOT23-3
TLE4964-5M	SP000997958	TLE49645MXTSA1	PG-SOT23-3
TLE4964-5M	SP001328246	TLE49645MXTMA1	PG-SOT23-3
TLE4964-6M	SP001042418	TLE49646MXTSA1	PG-SOT23-3
TLE4964-6M	SP001222092	TLE49646MXTMA1	PG-SOT23-3
TLE4965-5M	SP000978610	TLE49655MXTSA1	PG-SOT23-3
TLE4965-5M	SP001430478	TLE49655MXTMA1	PG-SOT23-3
TLE4968-1K	SP000847992	TLE49681KXTSA1	PG-SC59-3
TLE4968-1L	SP000848030	TLE49681LHALA1	PG-SSO-3
TLE4968-1M	SP000923334	TLE49681MXTSA1	PG-SOT23-3
TLE4968-1M	SP001328250	TLE49681MXTMA1	PG-SOT23-3
TLI4961-1M	SP001031008	TLI49611MXTSA1	PG-SOT23-3
TLI4961-1M	SP001328254	TLI49611MXTMA1	PG-SOT23-3
TLI4963-1M	SP001370094	TLI49631MXTSA1	PG-SOT23-3
TLI4963-1M	SP001430482	TLI49631MXTMA1	PG-SOT23-3
TLI4963-2M	SP000930186	TLI49632MXTSA1	PG-SOT23-3

TLI4963-2M	SP001430486	TLI49632MXTMA1	PG-SOT23-3
TLI4965-5M	SP000930190	TLI49655MXTSA1	PG-SOT23-3
TLI4965-5M	SP001430490	TLI49655MXTMA1	PG-SOT23-3
TLV4961-1TA	SP001274772	TLV49611TAXBXA1	PG-TO92S-3
TLV4961-1TB	SP001283610	TLV49611TBXALA1	PG-TO92S-3
TLV4961-3M	SP000965276	TLV49613MXTSA1	PG-SOT23-3
TLV4961-3M	SP001328262	TLV49613MXTMA1	PG-SOT23-3
TLV4961-3TA	SP001274776	TLV49613TAXBXA1	PG-TO92S-3
TLV4961-3TB	SP001283606	TLV49613TBXALA1	PG-TO92S-3
TLV4964-1M	SP000965280	TLV49641MXTSA1	PG-SOT23-3
TLV4964-1M	SP001328266	TLV49641MXTMA1	PG-SOT23-3
TLV4964-2M	SP000965284	TLV49642MXTSA1	PG-SOT23-3
TLV4964-2M	SP001328270	TLV49642MXTMA1	PG-SOT23-3
TLV4964-4TA	SP001274780	TLV49644TAXBXA1	PG-TO92S-3
TLV4964-4TB	SP001283600	TLV49644TBXALA1	PG-TO92S-3
TLV4964-5TA	SP001274784	TLV49645TAXBXA1	PG-TO92S-3
TLV4964-5TB	SP001283590	TLV49645TBXALA1	PG-TO92S-3
TLV4968-1TA	SP001274788	TLV49681TAXBXA1	PG-TO92S-3
TLV4968-1TB	SP001283508	TLV49681TBXALA1	PG-TO92S-3