

Product/process change notification

PCN N° 2021-127-A

Dear customer,

Please find attached our Infineon Technologies AG PCN:

Introduction of an additional assembly/test location at Tianshui Huatian Technology Co.,Ltd for products in package PG-DIP7/8

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 **2021-12-22**
- 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 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.

On 16 April 2020, Infineon acquired Cypress.
We are now in the process of merging and consolidating our tools and processes for PCN, Information Notes, Errata and Product Discontinuance.
For further details, please visit our website:
<https://www.infineon.com/cms/en/about-infineon/company/cypress-acquisition/>

Infineon Technologies AG
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Chairman of the Supervisory Board: Dr. Wolfgang Eder
Management Board: Dr. Reinhard Ploss (CEO), Dr. Helmut Gassel, Jochen Hanebeck, Constanze Hufenbecher, Dr. Sven Schneider
Registered Office: Neubiberg
Commercial Register: München HRB 126492

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► **Products affected**

Please refer to attached affected product list 1_cip21127_a

► **Detailed change information**

Subject Introduction of an additional assembly/test location at Tianshui Huatian Technology Co.,Ltd for products in package PG-DIP7/8

Reason Infineon second sourcing for capacity extension to assure continuity of supply and enable flexible manufacturing

Description

**PG-DIP-7-4
PG-DIP-8-13**

Old

- Assembly site:
ASE Assembly & Test
(Shanghai) Ltd.

New

- Assembly site:
ASE Assembly & Test
(Shanghai) Ltd.

And
Tianshui Huatian
Technology Co.,Ltd

- Test Site
Infineon Technologies
Singapore

- Test Site
Infineon Technologies
Singapore

And
Infineon Technologies
Batam Island, Indonesia

And
Infineon Technologies
Batam Island, Indonesia

PG-DIP-7-6

- Assembly site:
ASE (Shanghai) Inc.

- Assembly site:
ASE (Shanghai) Inc.

And
Tianshui Huatian
Technology Co.,Ltd

- Test site:
ASE (Shanghai) Inc.

- Test site:
ASE (Shanghai) Inc.

And
Tianshui Huatian
Technology Co.,Ltd

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▶ **Product identification** Internal traceability assured via Baunumber and datecode

▶ **Impact of change** Based on the qualification result performed, Infineon does not see any negative impact on quality, function and reliability.

▶ **Attachments**

1_cip21127_a	affected product list
2_cip21127_a	full qualification report

▶ **Time schedule**

- | | |
|------------------------------|------------|
| ■ Final qualification report | available |
| ■ First samples available | On request |
| ■ Intended start of delivery | 2022-06-01 |

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

Introduction of an additional assembly/test location at Tianshui Huatian Technology Co.,Ltd for products in PG-DIP7/8

Reason for choosing the following test vehicles:

ICE3A1565: representative product with A6 / EHATD Wafer technology chip in DIP-8 package using 25um AU-wire, IFBT final test location
 ICE3BR4765JZ: representative product with B6CA / EHATD Wafer technology chip in DIP-7 package using 25um AU-wire, IFBT final test location
 ICE3AR2280JZ: representative product with B6CA / EHC3D Wafer technology chip in DIP-7 package using 25um AU-wire, IFBT final test location
 ICE5QR2270AZ: representative product with C11 / EHC650 Wafer technology chip in DIP-7 package using 20um PCC-wire
 ICE5AR4780BZS: representative product with C11 / EHC4 Wafer technology chip in DIP-7 package using 20um PCC-wire

Scope of qualification: Expansion of assembly and test capacity to cover increasing customer demand, and enable flexible manufacturing.

Assessment of Q-Results: PASS

Stress test	Abbreviation	Test conditions	Readout	ICE3A1565	ICE3BR4765JZ	ICE3AR2280JZ	ICE5QR2270AZ	ICE5AR4780BZS
				fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed
Unbiased Highly Accelerated Temperature and Humidity Stress JESD22-A118	UHAST	Ta = 130°C RH = 85%	96 h	0 / 77	Refer to ICE3A1565 and ICE3AR2280JZ	0 / 77	0 / 77	0 / 77
High Temperature Storage Life JESD22-A103	HTSL	Ta = 150°C	1000 h	0 / 77	Refer to ICE3A1565 and ICE3AR2280JZ	0 / 77	0 / 77	0 / 77
Temperature Cycling JESD22-A104	TC	Ta min = -65°C Ta max = +150°C	500 x	0 / 77	Refer to ICE3A1565 and ICE3AR2280JZ	0 / 77	0 / 77	0 / 77
High Temperature Operating Life JESD22-A108	HTOL	Tj = 125°C	1000hrs	Refer to ICE3BR4765JZ and ICE3AR2280JZ	0 / 77	0 / 77	0 / 77	Refer to ICE5QR2270AZ
Temperature Humidity Bias JESD22-A101	THB	Ta = 85°C RH = 85% V = Vmax	1000hrs	Refer to ICE3BR4765JZ and ICE3AR2280JZ	0 / 77	0 / 77	0 / 77	Refer to ICE5QR2270AZ
Resistance to Soldering Temperature for Through-Hole Mounted Devices JESD-B106	RSH	Ta = 270°C		0 / 30	Refer to ICE3A1565 and ICE5AR4780BZS	Refer to ICE3A1565 and ICE5AR4780BZS	Refer to ICE3A1565 and ICE5AR4780BZS	0 / 30
Electrostatic Charge Device Model JS-001	ESD (HBM)			Class 2 (2000V to <4000V)	Refer to ICE3A1565 and ICE3AR2280JZ	Class 2 (2000V to <4000V)	Refer to ICE5AR4780BZS	Class 2 (2000V to <4000V)
Electrostatic Charge Device Model JS-002	ESD (CDM)			Class C3 (>1000V)	Refer to ICE3A1565 and ICE3AR2280JZ	Class C3 (>1000V)	Refer to ICE5AR4780BZS	Class C3 (>1000V)
Latch-Up JESD78	LU			Class 2	Refer to ICE3A1565 and ICE3AR2280JZ	Class 2	Refer to ICE5AR4780BZS	Class 2

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Sales name	SP number	OPN	Package
ICE3A2565	SP000015075	ICE3A2565FKLA1	PG-DIP-8-13
ICE3A1565	SP000015083	ICE3A1565FKLA1	PG-DIP-8-13
ICE3B0565J	SP000064685	ICE3B0565JFKLA1	PG-DIP-8-13
ICE3B0365J	SP000064720	ICE3B0365JFKLA1	PG-DIP-8-13
ICE3B1565J	SP000098876	ICE3B1565JFKLA1	PG-DIP-8-13
ICE3BR4765J	SP000358120	ICE3BR4765JFKLA1	PG-DIP-8-13
ICE3A1065ELJ	SP000430884	ICE3A1065ELJFKLA1	PG-DIP-8-13
ICE3A2065ELJ	SP000477348	ICE3A2065ELJFKLA1	PG-DIP-8-13
ICE2QR4765	SP000644950	ICE2QR4765XKLA1	PG-DIP-8-13
ICE3BR1765JZ	SP000706894	ICE3BR1765JZXKLA1	PG-DIP-7-4
ICE2QR1765	SP000717522	ICE2QR1765XKLA1	PG-DIP-8-13
ICE3BR0665JZ	SP000717568	ICE3BR0665JZXKLA1	PG-DIP-7-4
ICE3AR2280JZ	SP000730002	ICE3AR2280JZXKLA1	PG-DIP-7-4
ICE3BR4765JZ	SP000736810	ICE3BR4765JZXKLA1	PG-DIP-7-4
DDA010	SP000774082	DDA010XKLA1	PG-DIP-8-13
ICE2QR2280Z	SP000774322	ICE2QR2280ZXKLA1	PG-DIP-7-4
ICE2QR0680Z	SP000774406	ICE2QR0680ZXKLA1	PG-DIP-7-4
ICE3BR2280JZ	SP000775698	ICE3BR2280JZXKLA1	PG-DIP-7-4
ICE3BR0680JZ	SP000775720	ICE3BR0680JZXKLA1	PG-DIP-7-4
ICE3AR10080JZ	SP000775770	ICE3AR10080JZXKLA1	PG-DIP-7-4
ICE3AR4780JZ	SP000839212	ICE3AR4780JZXKLA1	PG-DIP-7-4
ICE3AR0680JZ	SP000848680	ICE3AR0680JZXKLA1	PG-DIP-7-4
ICE3BR1765J	SP000849302	ICE3BR1765JXKLA1	PG-DIP-8-13
ICE3BR0665J	SP000849306	ICE3BR0665JXKLA1	PG-DIP-8-13
ICE2QR0665Z	SP000895806	ICE2QR0665ZXKLA1	PG-DIP-7-4
ICE2QR1765Z	SP000905534	ICE2QR1765ZXKLA1	PG-DIP-7-4
ICE2QR4765Z	SP000905544	ICE2QR4765ZXKLA1	PG-DIP-7-4
ICE2QR0665	SP000937328	ICE2QR0665XKLA1	PG-DIP-8-13
ICE3B0565	SP000937330	ICE3B0565XKLA1	PG-DIP-8-13
ICE3AR10080JZ-2	SP000951732	ICE3AR10080JZ2XKLA1	PG-DIP-7-4
ICE3AR2280CJZ	SP000954580	ICE3AR2280CJZXKLA1	PG-DIP-7-4
ICE3AR10080CJZ	SP000954980	ICE3AR10080CJZXKLA1	PG-DIP-7-4
ICE2A280Z	SP000956838	ICE2A280ZXKLA1	PG-DIP-7-4
ICE3A0565Z	SP000964060	ICE3A0565ZXKLA1	PG-DIP-7-4
ICE3AR4780CJZ	SP000980568	ICE3AR4780CJZXKLA1	PG-DIP-7-4
ICE3A2065Z	SP000994122	ICE3A2065ZXKLA1	PG-DIP-7-4
ICE2A180Z	SP001056400	ICE2A180ZXKLA1	PG-DIP-7-4
ICE3RBR4765JZ	SP001087230	ICE3RBR4765JZXKLA1	PG-DIP-7-4
ICE3RBR1765JZ	SP001087238	ICE3RBR1765JZXKLA1	PG-DIP-7-4
ICE3RBR0665JZ	SP001087246	ICE3RBR0665JZXKLA1	PG-DIP-7-4
ICE3AR0680VJZ	SP001135738	ICE3AR0680VJZXKLA1	PG-DIP-7-4

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Sales name	SP number	OPN	Package
ICE3AR1080VJZ	SP001135758	ICE3AR1080VJZXKLA1	PG-DIP-7-4
ICE3AR1580VJZ	SP001135766	ICE3AR1580VJZXKLA1	PG-DIP-7-4
ICE3AR2280VJZ	SP001135778	ICE3AR2280VJZXKLA1	PG-DIP-7-4
ICE3AR4780VJZ	SP001135794	ICE3AR4780VJZXKLA1	PG-DIP-7-4
ICE5QR4780AZ	SP001459954	ICE5QR4780AZXKLA1	PG-DIP-7-6
ICE5QR2280AZ	SP001459960	ICE5QR2280AZXKLA1	PG-DIP-7-6
ICE5QR0680AZ	SP001459970	ICE5QR0680AZXKLA1	PG-DIP-7-6
ICE5QR4770AZ	SP001459972	ICE5QR4770AZXKLA1	PG-DIP-7-6
ICE5QR2270AZ	SP001459978	ICE5QR2270AZXKLA1	PG-DIP-7-4
ICE5QR2270AZ	SP001459978	ICE5QR2270AZXKLA1	PG-DIP-7-6
ICE5QR1070AZ	SP001459984	ICE5QR1070AZXKLA1	PG-DIP-7-6
ICE5AR4770BZS	SP001677144	ICE5AR4770BZSXKLA1	PG-DIP-7-6
ICE5AR4780BZS	SP001677150	ICE5AR4780BZSXKLA1	PG-DIP-7-6
ICE5AR0680BZS	SP001677154	ICE5AR0680BZSXKLA1	PG-DIP-7-6