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Control No. PCN-21311

Add INN3168C-H106-TL

Add "C" to INN3166C for the following H-Codes: H102, H106, H110, H114 (Highlighted in Blue)

August 20, 2021

August 25, 2021

November 10, 2021

PRODUCT/PROCESS CHANGE NOTIFICATION

TYPE OF CHANGE: Design Manufacturing Other

This notification is provided in accordance with Power Integrations policy of product/process change notification. If you have any questions or need further assistance, please contact your regional Power Integrations sales office.

DESCRIPTION OF CHANGE

Tianshui Huatian Technology (TSHT), a qualified manufacturing facility, located in Tianshui, China, will be added as a qualified site for assembly and testing of Power Integrations products in the InSOP-24D package as listed below.

There is neither change in the bill of materials nor manufacturing process.

REASON FOR CHANGE

Improve manufacturing flexibility and diversification of manufacturing sites.

PRODUCTS AFFECTED

Product Family	Part Numbers
InnoSwitch3-CE	INN3162C-H101-TL, INN3162C-H102-TL, INN3162C-H113-TL, INN3162C-H114-TL, INN3163C-H101-TL, INN3163C-H102-TL, INN3163C-H113-TL, INN3163C-H114-TL, INN3164C-H101-TL, INN3164C-H102-TL, INN3164C-H107-TL, INN3164C-H111-TL, INN3164C-H113-TL, INN3164C-H114-TL, INN3165C-H101-TL, INN3165C-H102-TL, INN3165C-H103-TL, INN3165C-H104-TL, INN3165C-H105-TL, INN3165C-H109-TL, INN3165C-H113-TL, INN3165C-H114-TL, INN3165C-H122-TL, INN3166C-H101-TL, INN3166C-H102-TL, INN3166C-H105-TL, INN3166C-H106-TL, INN3166C-H109-TL, INN3166C-H110-TL, INN3166C-H113-TL, INN3166C-H114-TL, INN3167C-H101-TL, INN3167C-H105-TL, INN3167C-H107-TL, INN3167C-H109-TL, INN3167C-H114-TL, INN3167C-H115-TL, INN3167C-H122-TL, INN3168C-H035-TL, INN3168C-H101-TL, INN3168C-H105-TL, INN3168C-H106-TL, INN3168C-H107-TL, INN3168C-H109-TL, INN3168C-H110-TL, INN3168C-H111-TL, INN3168C-H114-TL, INN3168C-H116-TL, INN3168C0234-TL, SC1513C-TL, SC1513C-H060-TL, SC1513C-H074-TL, SC1518C-H069-TL, SC1532C-TL, SC1533C-TL, SC1534C-TL, SC1543C-HC10-TL, SC1545C-TL
InnoSwitch3-CP	INN3264C-H201-TL, INN3264C-H202-TL, INN3264C-H220-TL, INN3265C-H201-TL, INN3265C-H202-TL, INN3265C-H211-TL, INN3265C-H214-TL, INN3265C-H216-TL, INN3266C-H203-TL, INN3266C-H204-TL, INN3266C-H206-TL, INN3266C-H207-TL, INN3266C-H210-TL, INN3266C-H214-TL, INN3266C-H217-TL, INN3266C-H219-TL, INN3267C-H205-TL, INN3267C-H214-TL, INN3267C-H217-TL, INN3268C-H202-TL, INN3268C-H207-TL, INN3268C-H208-TL, INN3268C-H209-TL, INN3268C-H210-TL, INN3268C-H212-TL, INN3268C-H214-TL, INN3268C-H215-TL, INN3268C-H221-TL, INN3268C-H233-TL, INN3274C-H201-TL, INN3274C-H202-TL, INN3275C-H122-TL, INN3275C-H201-TL, INN3275C-H202-TL, INN3275C-H211-TL, INN3275C-H213-TL, INN3276C-H203-TL, INN3276C-H204-TL, INN3276C-H206-TL, INN3276C-H210-TL, INN3276C-H214-TL, INN3277C-H205-TL, SC1540C-TL, SC1544C-TL, SC1544C-H010-TL, SC1548C-H016-TL,

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	SC1548C-H023-TL, SC1548C-HC32-TL, SC1549C-HC30-TL, SC1550C-TL, SC1551C-HC26-TL, SC1555C-TL, SC1557C-TL, SC1557C-H071-TL, SC1558C-TL, SC1603C-TL, SC1605C-TL, SC1606C-TL, SC1606C-H016-TL
InnoSwitch3-EP	INN3672C-H601-TL, INN3672C-H602-TL, INN3672C-H606-TL, INN3673C-H601-TL, INN3673C-H602-TL, INN3673C-H606-TL, INN3674C-H601-TL, INN3674C-H602-TL, INN3674C-H606-TL, INN3675C-H601-TL, INN3675C-H602-TL, INN3675C-H603-TL, INN3675C-H604-TL, INN3675C-H605-TL, INN3675C-H606-TL, INN3676C-H601-TL, INN3676C-H602-TL, INN3676C-H603-TL, INN3676C-H604-TL, INN3676C-H605-TL, INN3676C-H606-TL, INN3677C-H601-TL, INN3677C-H602-TL, INN3677C-H603-TL, INN3677C-H604-TL, INN3677C-H605-TL, INN3677C-H606-TL, INN3692C-H606-TL, INN3694C-H606-TL, INN3696C-H606-TL, SC1607C-H019-TL, SC1616C-TL, SC1616C-H063-TL, SC1821C-H021-TL, SC1864C-H054-TL, SC1893C-H065-TL
InnoSwitch3-MX	INN3464C-TL, INN3464C0245-TL, INN3465C-TL, INN3465C0245-TL, INN3466C-TL, INN3467C-TL, INN3468C-TL, INN3475C-TL, INN3476C-TL, INN3477C-TL, SC1881C-TL, SC1883C-TL
InnoSwitch3-Pro	INN3365C-H301-TL, INN3365C-H302-TL, INN3366C-H301-TL, INN3366C-H302-TL, INN3367C-H301-TL, INN3367C-H302-TL, INN3368C-H301-TL, INN3368C-H302-TL, INN3368C-H312-TL, INN3375C-H301-TL, INN3375C-H302-TL, INN3376C-H301-TL, INN3376C-H302-TL, INN3377C-H301-TL, INN3377C-H302-TL, SC1702C-TL, SC1702C-H051-TL, SC1703C-H009-TL, SC1707C-TL, SC1709C-TL, SC1710C-TL, SC1711C-H007-TL, SC1711C-H026-TL, SC1712C-H014-TL, SC1713C-H015-TL, SC1715C-H059-TL, SC1716C-H061-TL, SC1738C-TL, SC1738C-H034-TL, SC1750C-H031-TL, SC1751C-H009-TL, SC2375C-H036-TL
LYTSwitch-6	LYT6063C-TL, LYT6065C-TL, LYT6067C-TL, LYT6068C-TL, LYT6073C-TL, LYT6075C-TL, LYT6077C-TL, SC1970C-TL, SC1971C-TL

QUALIFICATION STATUS

See Appendix 1 for the qualification report.

EFFECT ON CUSTOMER

No adverse impact is expected in customers' applications. The product will be guaranteed to meet the datasheet limits.

EFFECTIVE DATE

November 22, 2021. This date is subject to change. Products fabricated at the current locations will continue to be shipped after the addition.

SAMPLE AVAILABILITY

Samples will be available 8 weeks from the date of request. Please send requests for samples within two weeks after receipt of this notification to the local Power Integrations sales office. For manufacturers that request samples, an accommodation will be made in order to allow time of customer's qualification in a case-specific manner.

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Reliability Engineering
Qualification Report

Qualification Project: P212001,
P212003, P212206, P212005

Project Title: TSHT InSOP-24D Package Qualification for InnoSwitch3 and LYTSwitch-6 Products
Qual Summary: Reliability testing was performed on three InnoSwitch3 lots to qualify InSOP-24D package assembly at TSHT (Tianshui Huatian Technology). All required reliability tests were completed with passing results. Yield analysis and assembly-level testing were completed with acceptable results. Based on these results, TSHT is qualified for InSOP-24D assembly of InnoSwitch3 and LYTSwitch-6 products.
Qualification Vehicle: INN3168C, INN3468C, INN3377C

Reliability Test Descriptions and Conditions

Test Name	Conditions	Reference Specification
DOPL (Dynamic High Temp Operating Life)	Tj=125°C, Vd _(peak) =520V (INN3168C, INN3468C) & 580V (INN3377C)	EIA/JESD22-A108
HTRB (High Temperature Reverse Bias Life)	Ta=150°C, Vd=520V (INN3168C, INN3468C) & 580V (INN3377C), static off-state bias	EIA/JESD22-A108
THBT (Temperature Humidity under Bias Test)	85°C, 85% RH, Vd=100V (INN3168C), Vd=30V (INN3468C, INN3377C)	EIA/JESD22-A101
TC (Temperature Cycling, Air to Air)	-40°C to +125°C, air to air	EIA/JESD22-A104
HTSL (High Temperature Storage Life)	Ta=150°C, unbiased	EIA/JESD22-A103
MSL3 Preconditioning	24-hr 150°C Bake +40-hr 60°C, 60% RH Moisture Soak + 3 Passes 260°C Solder Reflow	IPC/JEDEC J-STD-020

DOPL (Dynamic High Temp Operating Life)

Product	Lot #	Package	Test Duration	Failures/Sample Size
INN3168C	M9V685E	InSOP-24D	MSL3 + 1000 hours	0 / 45
INN3468C	M9V701F	InSOP-24D	MSL3 + 1000 hours	0 / 45
INN3377C	MAG224D	InSOP-24D	MSL3 + 1000 hours	0 / 45

HTRB (High Temperature Reverse Bias Life)

Product	Lot #	Package	Test Duration	Failures/Sample Size
INN3168C	M9V685E	InSOP-24D	MSL3 + 1000 hours	0 / 45
INN3468C	M9V701F	InSOP-24D	MSL3 + 1000 hours	0 / 45
INN3377C	MAG224D	InSOP-24D	MSL3 + 1000 hours	0 / 45

THBT (Temperature Humidity under Bias Test)

Product	Lot #	Package	Test Duration	Failures/Sample Size
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INN3168C	M9V685E	InSOP-24D	MSL3 + 1000 hours	0 / 45
INN3468C	M9V701F	InSOP-24D	MSL3 + 1000 hours	0 / 45
INN3377C	MAG224D	InSOP-24D	MSL3 + 1000 hours	0 / 45

TC (Temperature Cycling)

Product	Lot #	Package	Test Duration	Failures/Sample Size
INN3168C	M9V685E	InSOP-24D	MSL3 + 850 cycles	0 / 45
INN3468C	M9V701F	InSOP-24D	MSL3 + 850 cycles	0 / 45
INN3377C	MAG224D	InSOP-24D	MSL3 + 850 cycles	0 / 45

HTSL (High Temperature Storage Life)

Product	Lot #	Package	Test Duration	Failures/Sample Size
INN3168C	M9V685E	InSOP-24D	MSL3 + 1000 hours	0 / 45
INN3468C	M9V701F	InSOP-24D	MSL3 + 1000 hours	0 / 45
INN3377C	MAG224D	InSOP-24D	MSL3 + 1000 hours	0 / 45

Conclusion:

Based on passing qualification results, TSHT is qualified for InSOP-24D assembly of InnoSwitch3 and LYTSwitch-6 products.

CUSTOMER ACKNOWLEDGEMENT

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Power Integrations requests you acknowledge the receipt of the above-mentioned PCN. If no acknowledgment is received within 30 days of this notification, Power Integrations will assume the change is acceptable. Lack of any additional response within 90 days of this notification further constitutes acceptance of the change.

Power Integrations reserves the right to ship either version manufactured after the effective date.

If you have any questions or need further assistance, please contact your regional Power Integrations sales office. Otherwise, please check the box below, acknowledging the receipt of the PCN.

The indicated Product/Process Change Notification was received by the undersigned authority.

Name/Title: _____

Signature: _____ Date: _____

Email Address/Phone#: _____

Company/Location: _____

CUSTOMER COMMENTS

Please email this signed form to pcn@power.com specifying the PCN# in the subject.

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