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Control No. PCN-23221

July 10, 2023

### 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 in the eSIP packages as listed below.

There is neither change in the bill of materials nor manufacturing process. Datasheet also remains unchanged.

### REASON FOR CHANGE

Improve manufacturing flexibility and diversification of manufacturing sites.

### PRODUCTS AFFECTED

Product Family	Ordering Part Number	Package
HiperLCS	LCS700HG, LCS700HG0186, LCS700HG0228, LCS701HG, LCS701HG0228, LCS702HG, LCS702HG0103, LCS703HG, LCS703HG0228, LCS705HG, LCS708HG	eSIP-16J
LinkSwitch-3	LNK6408E, LNK6418E, LNK6428E, LNK6448E	eSIP-7C
LinkSwitch-HP	LNK6663E, LNK6663E0225, LNK6664E, LNK6665E, LNK6666E, LNK6667E, LNK6668E, LNK6669E, LNK6763E, LNK6764E, LNK6765E, LNK6766E, LNK6766E0105, LNK6767E, LNK6768E, LNK6769E, LNK6773E, LNK6774E, LNK6775E, LNK6776E, LNK6777E, LNK6778E, LNK6779E, SC1166E, SC1189E	eSIP-7C
LinkSwitch-PH	LNK403EG, LNK404EG, LNK405EG, LNK406EG, LNK407EG, LNK408EG, LNK409EG, LNK410EG, LNK413EG, LNK414EG, LNK415EG, LNK416EG, LNK417EG, LNK418EG, LNK419EG, LNK420EG, SC1153EG	eSIP-7C
LYTSwitch-4	LYT4211E, LYT4211E2, LYT4212E, LYT4212E2, LYT4213E, LYT4213E2, LYT4214E, LYT4214E2, LYT4215E, LYT4215E2, LYT4216E, LYT4216E2, LYT4217E, LYT4217E2, LYT4218E, LYT4218E2, LYT4221E, LYT4221E3, LYT4222E, LYT4222E3, LYT4223E, LYT4223E3, LYT4224E, LYT4224E3, LYT4225E, LYT4225E3, LYT4226E, LYT4226E3, LYT4227E, LYT4227E3, LYT4228E, LYT4228E3, LYT4311E, LYT4311E2, LYT4312E, LYT4312E2, LYT4313E, LYT4313E2, LYT4314E, LYT4314E2, LYT4315E, LYT4315E2, LYT4316E, LYT4316E2, LYT4317E, LYT4317E2, LYT4318E, LYT4318E2, LYT4321E, LYT4321E3, LYT4321E4, LYT4322E, LYT4322E3, LYT4323E, LYT4323E3, LYT4324E, LYT4324E3, LYT4325E, LYT4325E3, LYT4326E, LYT4326E3, LYT4327E, LYT4327E3, LYT4328E, LYT4328E3	eSIP-7C
TopSwitch-HX	TOP262EN, TOP258EN, TOP255EN, TOP256EN, TOP259EG, TOP261EN, TOP253EN0105, TOP256EG, TOP253EN0004, TOP254EG, TOP257EN, TOP253EN, TOP252EN, TOP259EN, TOP254EN, TOP256EN0186, TOP255EG, TOP254EN0105, TOP260EN, TOP258EG, TOP252EG, TOP253EG,	eSIP-7C

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	TOP254EG0105, TOP255EG, TOP256EN0156, TOP257EG, TOP257EN0004, TOP257EN0166, TOP258EN0105, TOP260EG, TOP260EN0004, TOP261EG	
TopSwitch-JX	TOP266EG, TOP271EG, SC1060E, TOP265EG, TOP268EG, TOP270EG, TOP264EG, TOP267EG, TOP269EG, TOP267EG0068, SC1061E, SC1058E, TOP270EG0225	eSIP-7C

**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**

October 10, 2023. This date is subject to change. Products assembled 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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Appendix 1  
Reliability Engineering  
Qualification Report

Qualification Project: P230603, P230604

**Project Title: TSHT eSIP-7C and eSIP-16J Qualification**

**Summary:**

Reliability testing was performed to qualify TSHT assembly site for assembly of eSIP-7C and eSIP-16J packages. Three lots of TOP271EG (eSIP-7C) and LCS708HG (eSIP-16J) were built and subjected to reliability test with passing results. Parametric Characterization, Resistance to Solder Heat and Solderability test were all completed with passing results. Assembly yield and test yield analysis were completed with acceptable results.

Based on these results, eSIP-7C and eSIP-16J packages are qualified at TSHT.

**Reliability Test Descriptions and Conditions**

Test Name	Conditions	Reference Specification
DOPL (Dynamic Operating Life Test)	Ta=95°C, Vd <sub>(peak)</sub> =580V	EIA/JESD22-A108
HALT (Humidity Accelerated Life Test)	Ta=85°C/ 85%RH, Vd <sub>(peak)</sub> =580V	Internal Standard
HTRB (High Temperature Reverse Bias Test)	Ta=150°C, Vd=580V, Vc=8.2V Ta=150°C, Vd=425V, Vc=15V	EIA/JESD22-A108
THBT (Temperature Humidity Bias Test)	Ta=85°C, 85% RH, Vd=30V, Vc=8.2V Ta=85°C, 85% RH, Vd=30V, Vc=15V	EIA/JESD22-A101
TMCL (Temperature Cycle, 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

**DOPL (Dynamic Operating Life)**

Product	Lot #	Rel Reference #	Test Duration	No. Failures/Sample Size
TOP271EG	CD051B	P230603	1000 hours	0 / 45
TOP271EG	CD052B	P230603	1000 hours	0 / 45
TOP271EG	CD054B	P230603	1000 hours	0 / 45

**HALT (Humidity Accelerated Life Test)**

Product	Lot #	Rel Reference #	Test Duration	No. Failures/Sample Size
TOP271EG	CD051B	P230603	1000 hours	0 / 45
TOP271EG	CD052B	P230603	1000 hours	0 / 45
TOP271EG	CD054B	P230603	1000 hours	0 / 45

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**HTRB (High Temperature Reverse Bias)**

Product	Lot #	Rel Reference #	Test Duration	No. Failures/Sample Size
TOP271EG	CD051B	P230603	1000 hours	0 / 45
TOP271EG	CD052B	P230603	1000 hours	0 / 45
TOP271EG	CD054B	P230603	1000 hours	0 / 45
LCS708HG	MBW288A	P230604	1000 hours	0 / 45
LCS708HG	MBW288B	P230604	1000 hours	0 / 45
LCS708HG	MBW288C	P230604	1000 hours	0 / 45

**THBT (Temperature Humidity Bias)**

Product	Lot #	Rel Reference #	Test Duration	No. Failures/Sample Size
TOP271EG	CD051B	P230603	1000 hours	0 / 45
TOP271EG	CD052B	P230603	1000 hours	0 / 45
TOP271EG	CD054B	P230603	1000 hours	0 / 45
LCS708HG	MBW288A	P230604	1000 hours	0 / 45
LCS708HG	MBW288B	P230604	1000 hours	0 / 45
LCS708HG	MBW288C	P230604	1000 hours	0 / 45

**TMCL (Temperature Cycling)**

Product	Lot #	Rel Reference #	Test Duration	No. Failures/Sample Size
TOP271EG	CD051B	P230603	850 cycles	0 / 45
TOP271EG	CD052B	P230603	850 cycles	0 / 45
TOP271EG	CD054B	P230603	850 cycles	0 / 45
LCS708HG	MBW288A	P230604	850 cycles	0 / 45
LCS708HG	MBW288B	P230604	850 cycles	0 / 45
LCS708HG	MBW288C	P230604	850 cycles	0 / 45

**HTSL (High Temperature Storage Life)**

Product	Lot #	Rel Reference #	Test Duration	No. Failures/Sample Size
TOP271EG	CD051B	P230603	1000 hours	0 / 45
TOP271EG	CD052B	P230603	1000 hours	0 / 45
TOP271EG	CD054B	P230603	1000 hours	0 / 45
LCS708HG	MBW288A	P230604	1000 hours	0 / 45
LCS708HG	MBW288B	P230604	1000 hours	0 / 45
LCS708HG	MBW288C	P230604	1000 hours	0 / 45

**Conclusion:** Based on passing results, eSIP-7C and eSIP-16J packages are qualified at TSHT.

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**CUSTOMER ACKNOWLEDGEMENT**

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**

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Please email this signed form to [pcn@power.com](mailto:pcn@power.com) specifying the PCN# in the subject.

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