

Control No. PCN-23143

April 25, 2023

PRODUCT/PROCESS CHANGE NOTIFICATION

TYPE OF CHANGE:

☐ Design

☐ Manufacturing

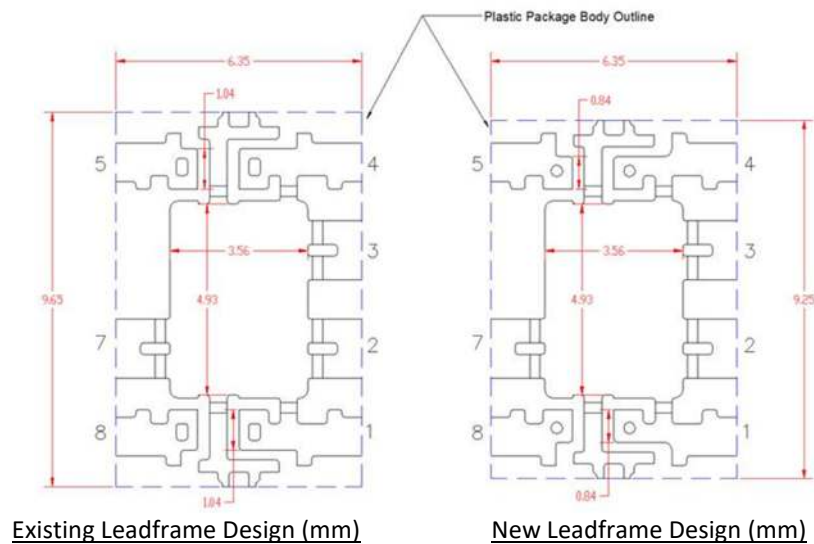
☒ For Information Only

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

DESCRIPTION OF CHANGE

An existing qualified leadframe supplier, Hua Yang, will be added as an alternative leadframe supplier for 140x200 mil leadframe to be used for the LinkSwitch SMD-8B products listed in below.

This leadframe internal design configuration will remain the same as shown in the figure below, but there will be some small dimensional changes to inner lead features that will not affect fit, functionality or performance of the product. The plastic body length will also change as shown in the figure, but the new dimension is still within our datasheet package drawing tolerances.



REASON FOR CHANGE

For increased manufacturing capacity and flexibility.

PRODUCTS AFFECTED

LNK500GN-TL, LNK501GN, LNK501GN-TL, LNK520GN-TL

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QUALIFICATION STATUS

Please refer to Appendix 1 for the qualification data.

EFFECT ON CUSTOMER

No adverse impact on manufacturers' applications is expected.

EFFECTIVE DATE

Immediate. Both leadframe versions will be shipped during the transition period.

SAMPLE AVAILABILITY

Not Required

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Appendix 1
Reliability Engineering
Qualification Report

Qualification Project: P223602

Project Title: LinkSwitch Products Hua Yang SMD-8 140x200 Leadframe Qualification

Summary:

Reliability testing was performed to qualify the Hua Yang 140x200 mil SMD-8 leadframe for assembly of LinkSwitch products. Three LNK500GN qualification lots using the Hua Yang 140x200 mil SMD-8 leadframe were subjected to MSL4 + TMCL for qualification with passing results obtained. CSAM, Lead Integrity (Tension & Fatigue), Solderability and Construction Analysis were all completed with passing results. Yield analysis was completed on each product with acceptable results.

Based on these results, the Hua Yang 140x200 SMD-8 leadframe is qualified for use with LinkSwitch products (see above Products Affected list).

Reliability Test Descriptions and Conditions

Test Name	Conditions	Reference Specification
TMCL (Temperature Cycle, Air to Air)	-65°C to +150°C, air to air	EIA/JESD22-A104-E
MSL4 Preconditioning	24-hr 150°C Bake + 96-hr 30°C, 60% RH Soak + 3 Passes 260°C Solder Reflow	IPC/JEDEC J-STD-020

TMCL (Temperature Cycling)

Product	Lot #	Leadframe	Test Duration	Failures/Sample Size
LNK500GN	CS151G	Hua Yang 140x200 mil SMD-8	MSL4 + 1000 cycles	0 / 45
LNK500GN	CS151H	Hua Yang 140x200 mil SMD-8	MSL4 + 1000 cycles	0 / 45
LNK500GN	CS151I	Hua Yang 140x200 mil SMD-8	MSL4 + 1000 cycles	0 / 45

Conclusion: Based on passing results, the Hua Yang 140x200 mil SMD-8 leadframe is qualified for use with LinkSwitch products (see above Products Affected list).

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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

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

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