

> Product Change Notification (PCN)

Product group:	SKIIPACK	Rev.:	0
No.:	PN18-106	Alternative material for half bridge element SKiiP3	16 Oct 2018

Dear valued partner,

Thank you for using SEMIKRON products. Within our continuous improvement activities we are working to enhance performance, quality and reliability of our products. This notification is to inform you of a relevant change.

We would like to express our sincere appreciation for your cooperation regarding the following changes and want to assure you that SEMIKRON will work closely with you to support your requirements during this transition.

Please respond to this PCN by indicating your decision on the below approval form, sign it and return it to your SEMIKRON sales partner before 16 Nov 2018.

Subject of change: Additional material for SKiiP3 half bridge element is released

SEMIKRON All half bridge module SKiiP3 V3
product type:

Description of change: Alternative plastic material for the half bridge element will be introduced as alternative into production:

Current material	Alternative material
Ryton BR 111	Torelina A310MB6

Reason for change: More reliable supply chain, alternative sourcing

Impact of change: No impact: no change of product dimensions/form; no change of mechanical/electrical characteristics

Identification of change: Date code

Time schedule for change: Starting from CW48 2018

Last time order date: -

Last time delivery date: -

Qualification:

Test	Conditions	Result
Thermal resistance	Rth (j-s)	8/8 passed
Insulation test	4800V, AC, 1s	32/32 passed
Thermal cycling	-40/125°C, 200 cycles	8/8 passed
Power cycling	$\Delta T=110^{\circ}\text{C}$, 20000 cycles	4/4 passed
High humidity high temperature reverse bias (H3TRB)	85°C/85% rel. Humidity, 960V _{DC} , 1000h	8/8 passed
high temperature reverse bias (HTRB)	150°C, 1615V _{DC} , 1000h	8/8 passed

FMEA-analysis passed successfully

Supporting documentation: n.a

Author: Flohrer, Hendrik

- ☐ Please respond to this PCN by returning the attached customer approval form to your local sales partner.
- ☐ According to the IEC Standard JESD46 no response to this PCN within 30 days after receipt constitutes acceptance of the change.