Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions
Max-Eyth-Straße 1 · 74638 Waldenburg · Germany
Tel. +49 (0) 79 42 945-0 · Fax +49 (0) 79 42 945-400
eiSos@we-online.de · www.we-online.de

Product / Process Change Notification (PCN)

☒ Major change
☐ Minor change

PCN #:	PCN_WL-SMSW_3014_20220226
Affected Series:	155301xx73100
PCN Date:	November 26, 2021
Effective Date:	February 26, 2022

Change Category:

☐ Equipment / Location
☐ General Data
☒ Material
☐ Process
☒ Product Design
☐ Shipping / Packaging
☒ Supplier
☐ Software

Contact:	Product Management
Phone:	+49 (0) 7942 - 945 5001
Fax:	+49 (0) 7942 - 945 5179
E-Mail:	pcn.eisos@we-online.com

Data Sheet Change:

☒ Yes ☐ No

Attachment:

☐ Yes ☒ No

DESCRIPTION AND PURPOSE OF CHANGE:

To ensure an improved product assembly, Würth Elektronik enhances the lead frame for the series WL-SMSW 3014. Because of material shortage, we also apply the silicon from new supplier for this series

All products with date code 2022-01-01 or later, will be affected by this change.

There will be no change in function, quality or reliability of the product. Our FMDs will be updated.

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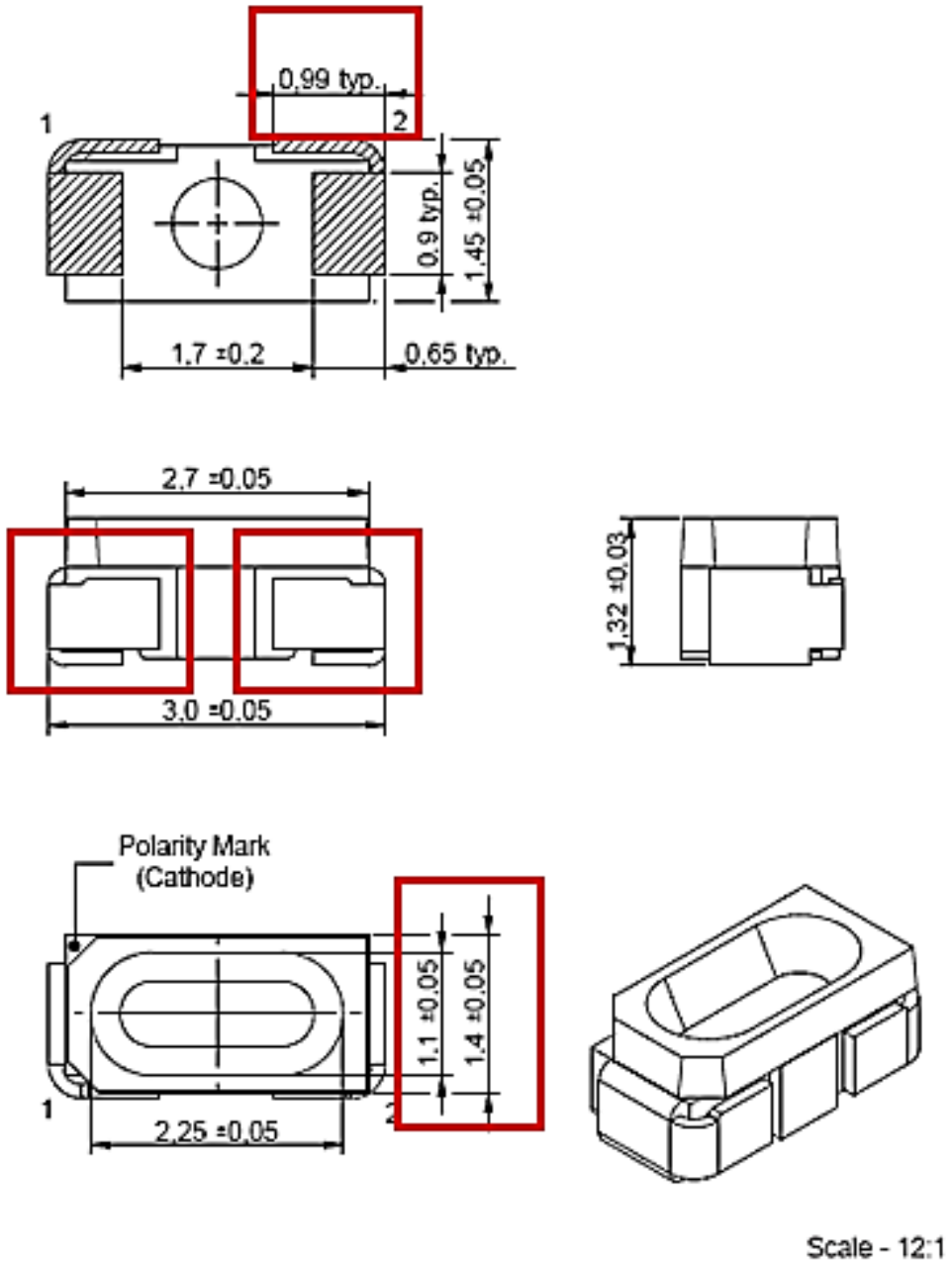
DETAIL OF CHANGE:

Product dimensions before change



Scale - 12:1

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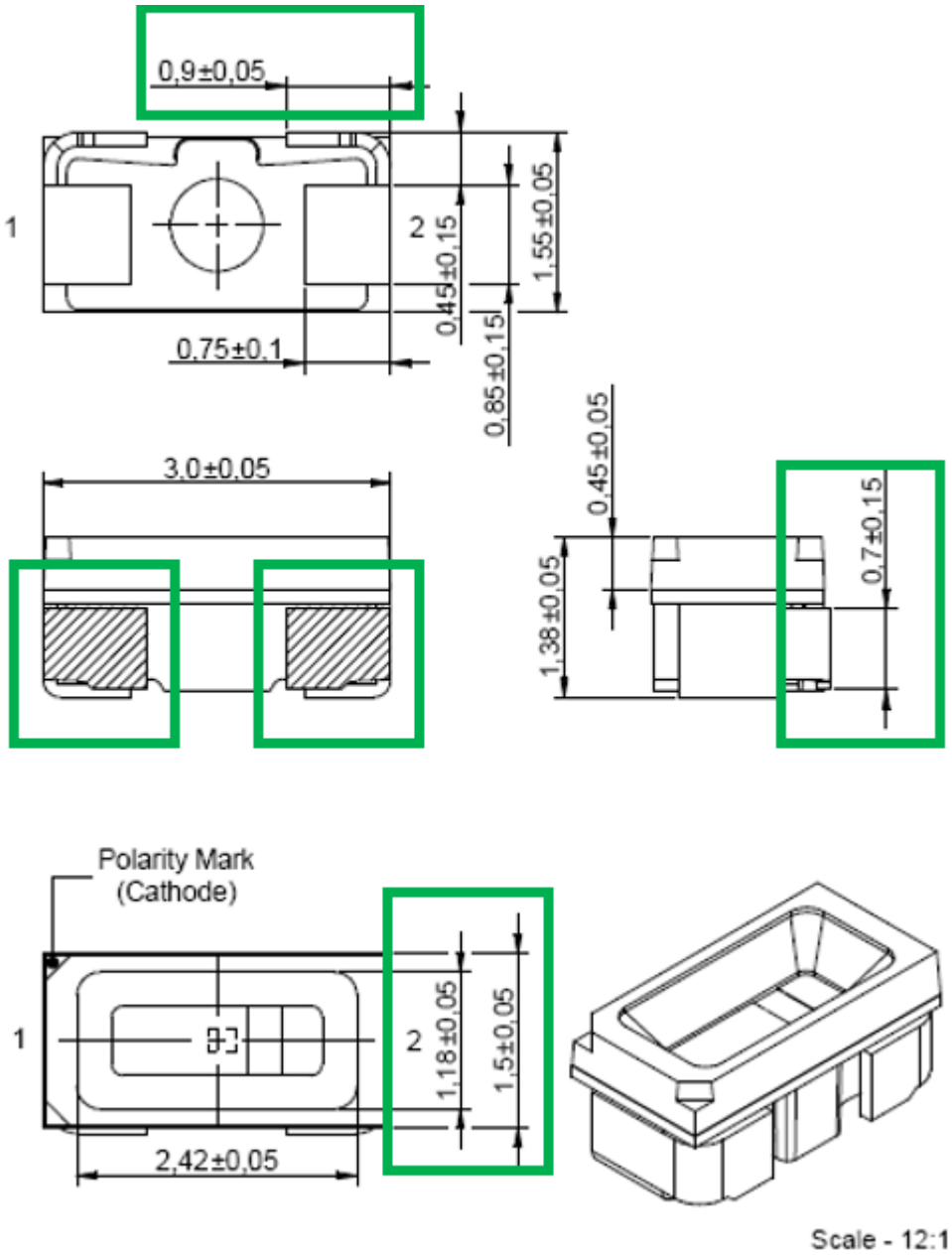
Product dimensions after change

The marked soldering areas are corrected on the side view of the LED instead of bottom view. The main changed values of the new design are marked green. The other dimension values are also varied according to this change



Scale - 12:1

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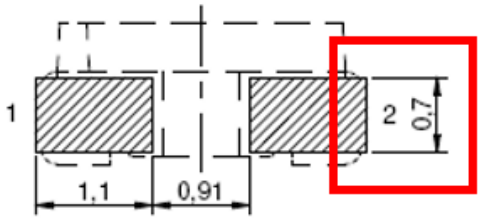
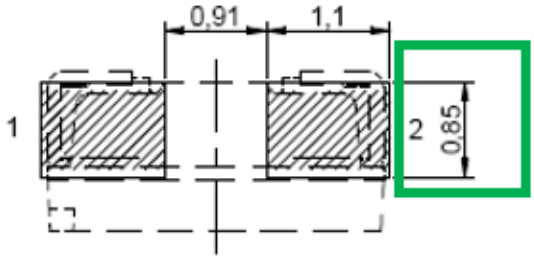
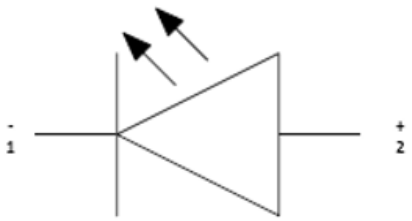
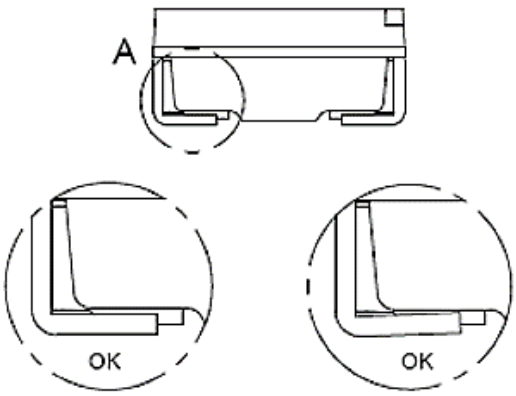
Recommended land pattern

Before	After
 Scale - 12:1	 Scale - 12:1

The updated contact pads are still passed on the old recommended land pattern design

Instead of showing the schematic of LED, the detail A of lead frame is revised

Before	After
Schematic: 	 Scale - 12:1

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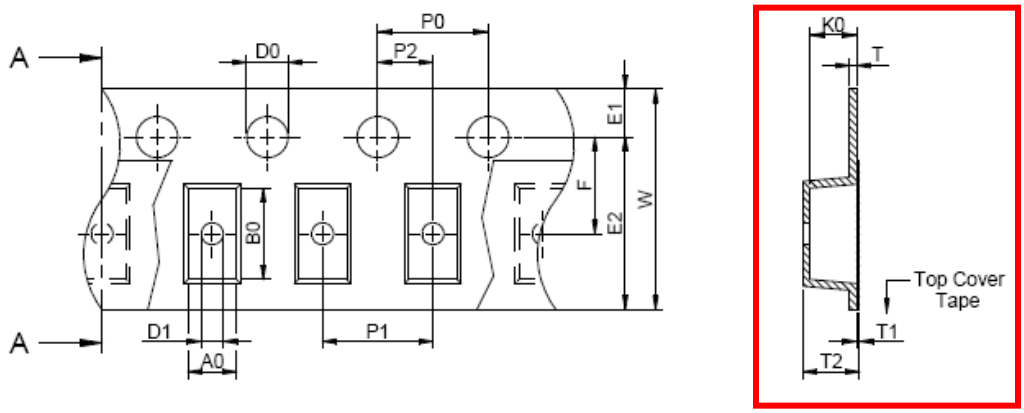
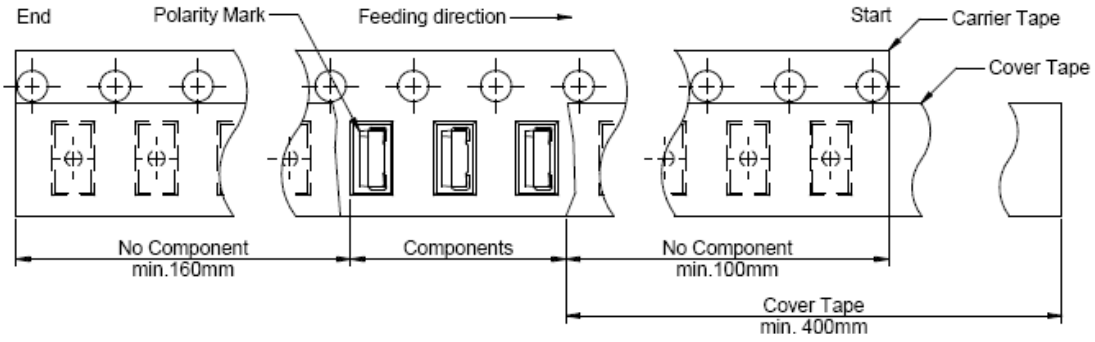
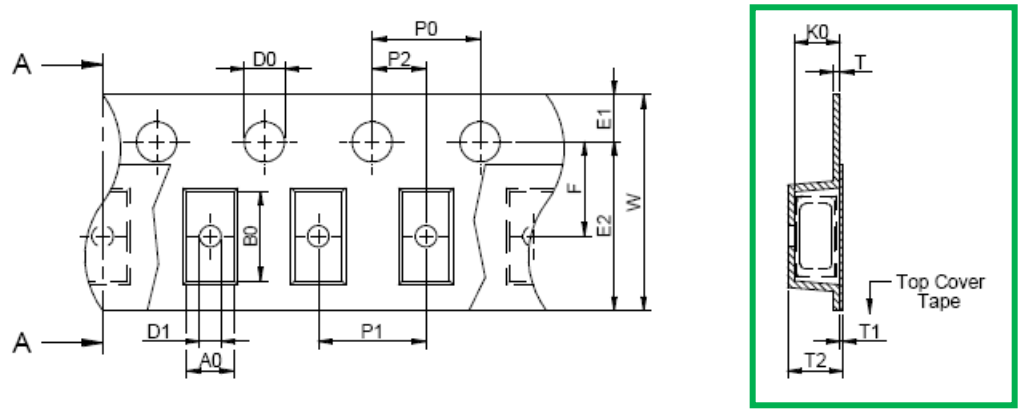
Packaging drawing

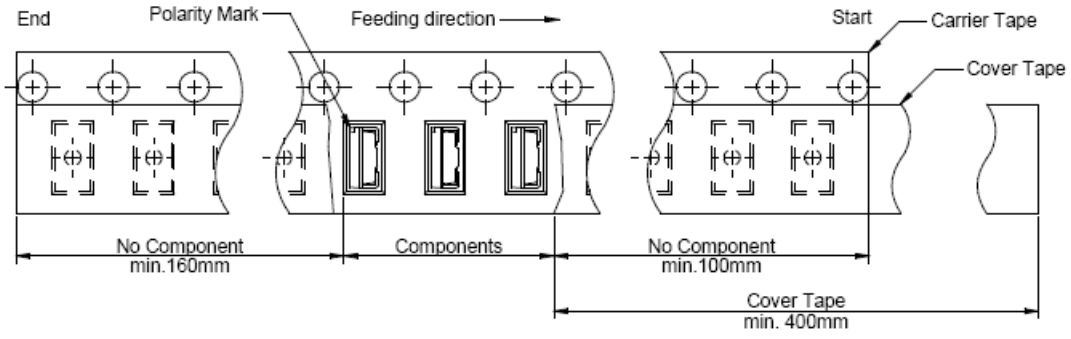
Before





After





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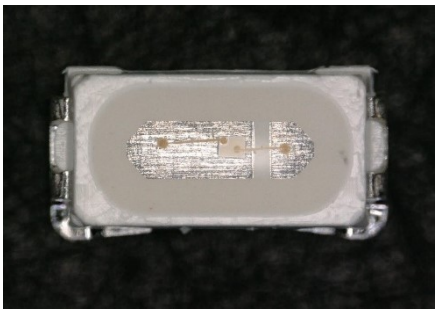
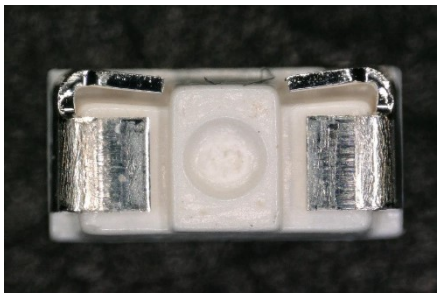
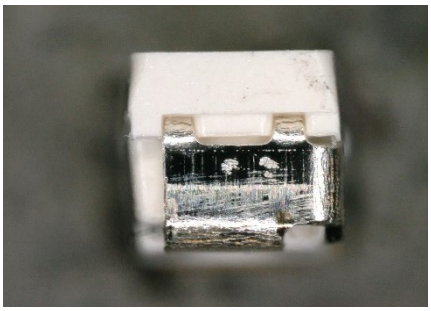
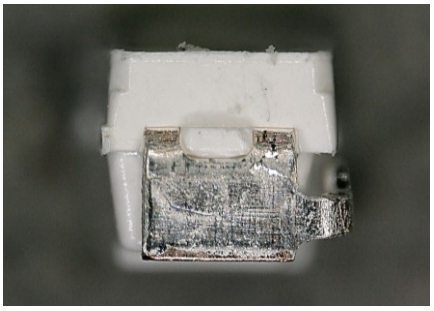
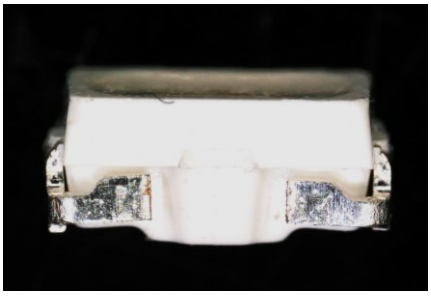
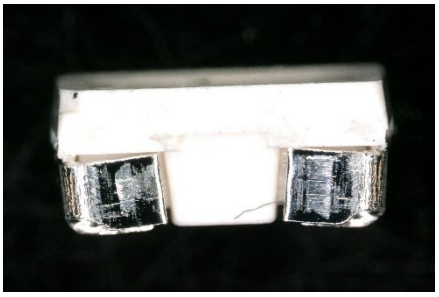
Product review

Before	After
	
	
	
	

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RELIABILITY / QUALIFICATION SUMMARY:

Product approval is according to the specification and is internally released by the Product Management Department.

No.	Test	Qty	Reference	Test conditions
1	Reflow test	30	Internal Reflow Profile according to J-STD-020C	Unsoldered WE Reflow Profile: (at least 3 times must be passed) Peak: TP +5°C Conditions: Preheat: 150-200°C (max 120s) Liquidus temperature: 217°C (max 60s) Peak Temperature: 250°C (10s +/-2s)
2	Thermal Shock	30	MIL-STD-202 Method 107	Temperature: -40°C/+125°C or individual specified operating temperature Dwell time: 30 minutes. Cycles: 40 Transfer time: max. 20s.
3	Vibration	30	MIL-STD-202 Method 204	20g's for 20 minutes, 12 cycles each of 3 orientations. Note: Use 100mm x 160mm x 1,5mm PCB-Board. Test from 25-2000 Hz.