

Würth Elektronik eiSos GmbH &amp; Co. KG

EMC &amp; Inductive Solutions

Max-Eyth-Straße 1 · 74638 Waldenburg · Germany

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## 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

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### 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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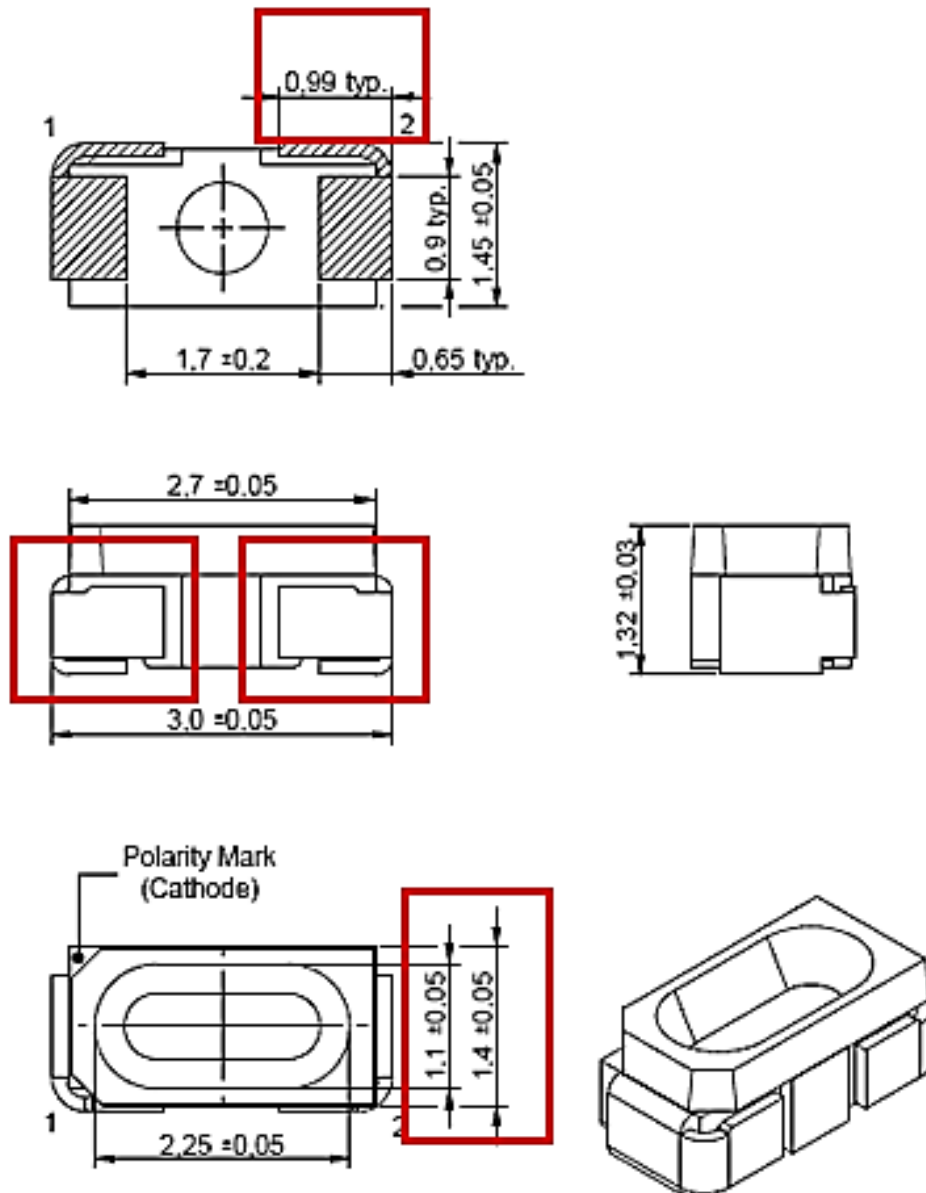
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## DETAIL OF CHANGE:

Product dimensions before change



Scale - 12:1

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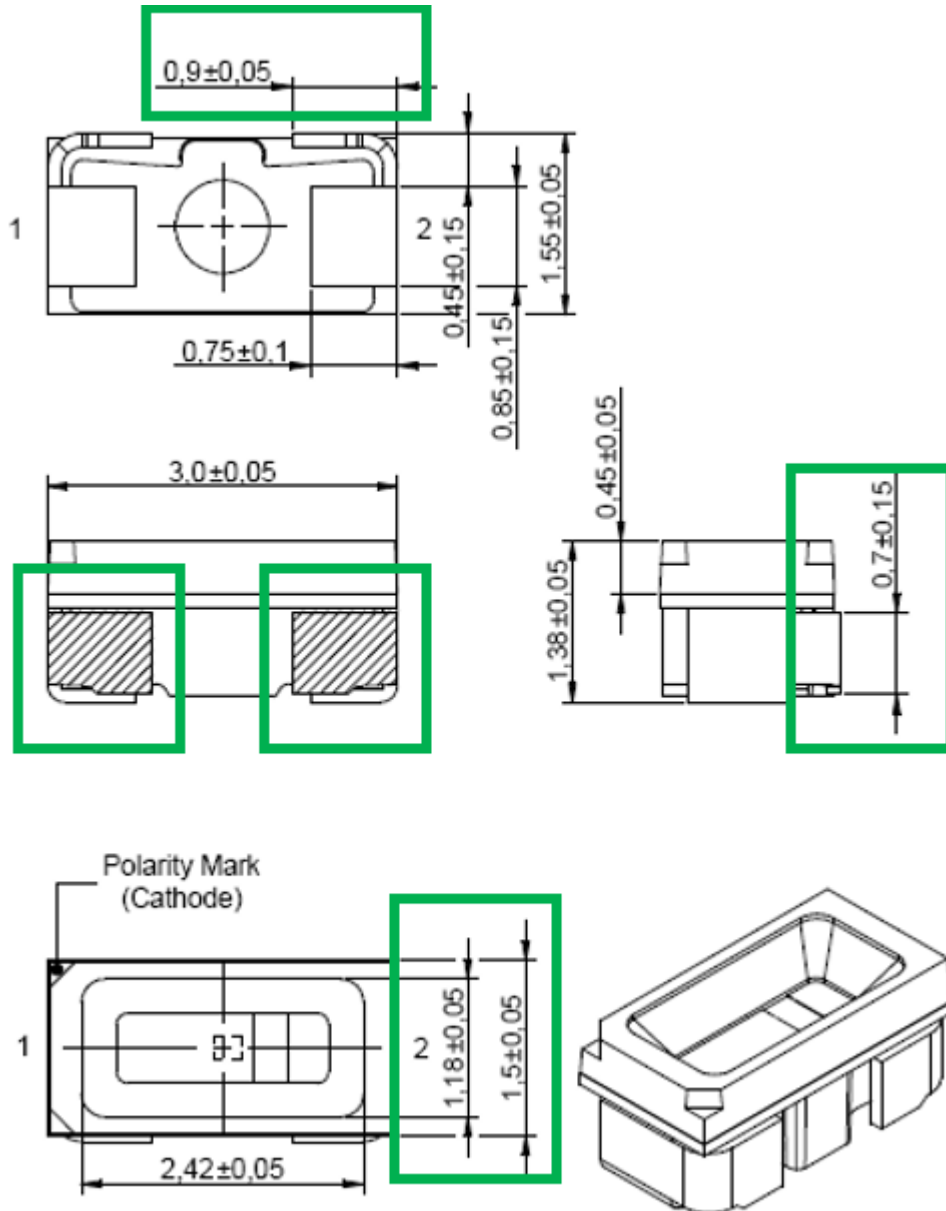
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## Product dimensions after change

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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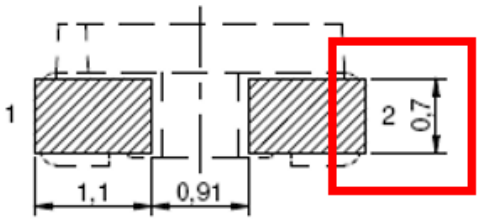
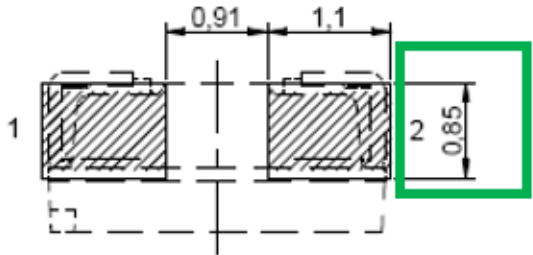
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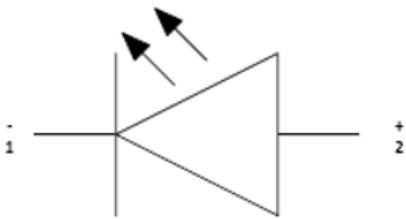
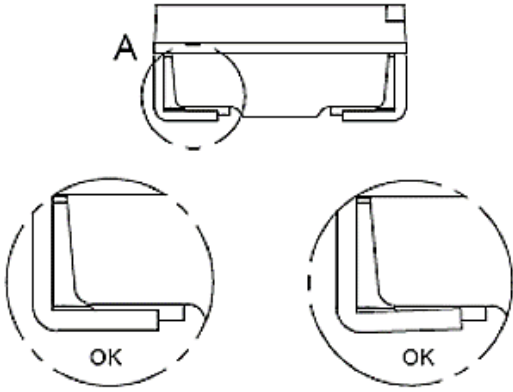


## Recommended land pattern

| Before                                                                                                                           | After                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|  <p style="text-align: right;">Scale - 12:1</p> |  <p style="text-align: right;">Scale - 12:1</p> |

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                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Schematic:</b></p>  |  <p style="text-align: right;">Scale - 12:1</p> |

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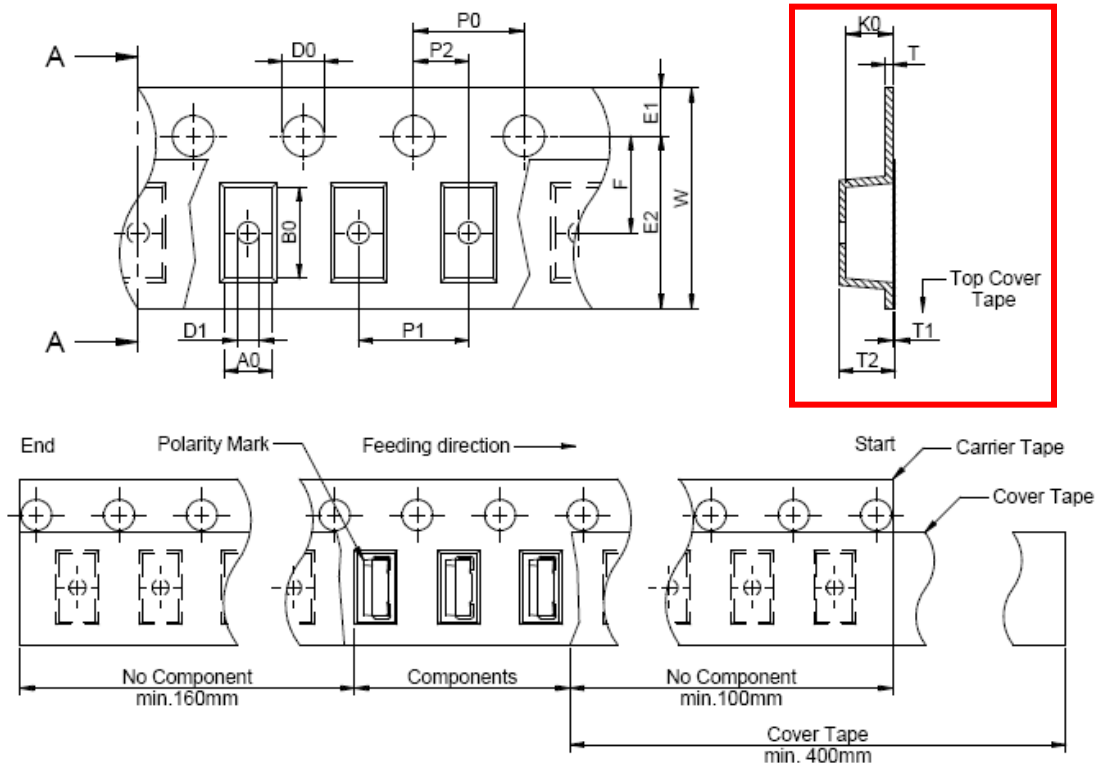
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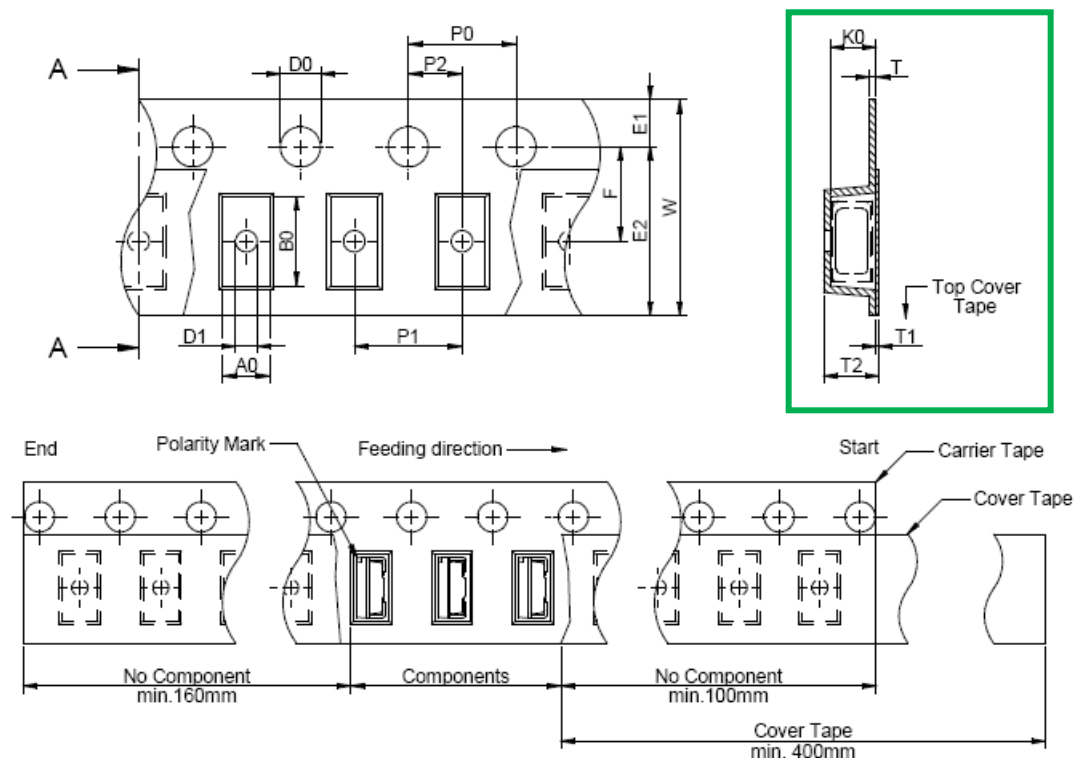


## Packaging drawing

Before



After



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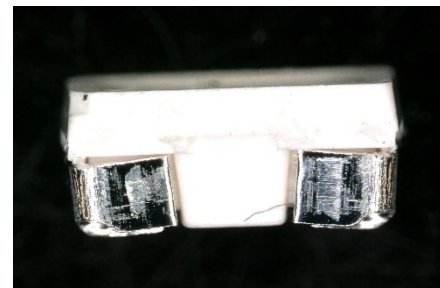
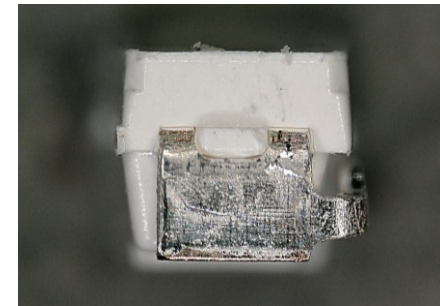
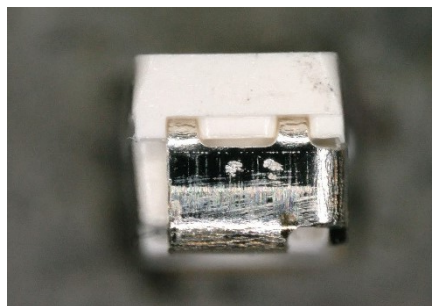
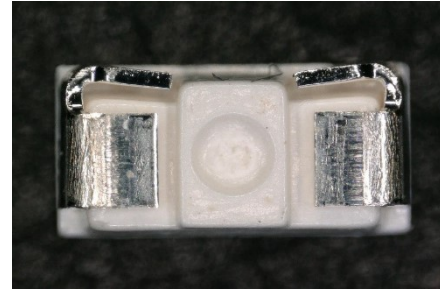
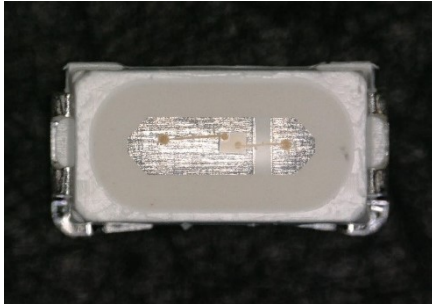
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## Product review

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<br>Profile according to<br>J-STD-020C | Unsoldered<br>WE Reflow Profile: (at least 3 times must be<br>passed)<br>Peak: TP +5°C Conditions: Preheat: 150-<br>200°C (max 120s)<br>Liquidus temperature: 217°C (max 60s)<br>Peak Temperature: 250°C (10s +/-2s) |
| 2   | Thermal Shock | 30  | MIL-STD-202<br>Method 107                             | Temperature: -40°C/+125°C or individual<br>specified operating temperature<br>Dwell time: 30 minutes.<br>Cycles: 40<br>Transfer time: max. 20s.                                                                      |
| 3   | Vibration     | 30  | MIL-STD-202<br>Method 204                             | 20g's for 20 minutes, 12 cycles each of 3<br>orientations.<br>Note: Use 100mm x 160mm x 1,5mm PCB-<br>Board.<br>Test from 25-2000 Hz.                                                                                |