

Würth Elektronik eiSos GmbH &amp; Co. KG

EMC &amp; Inductive Solutions

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## Product / Process Change Notification (PCN)

- Major change  
 Minor change

**PCN #:** PCN\_WL-SFCC-20200513  
**Affected Series:** WL-SFCC\_150044M155260

**PCN Date:** April 13, 2020  
**Effective Date:** May 13, 2020

### 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 meet current customer demands, Würth Elektronik will change the operating temperature of the PN 150044M155260 from -30°C to 85°C to -40°C to 85°C

There will be no change in form, fit, quality or reliability of the product.

### DETAIL OF CHANGE:

Before	After																
<p><b>General Information:</b></p> <table border="1"> <tr> <td>Operating Temperature</td> <td>-30 up to +85 °C</td> </tr> <tr> <td>Storage Conditions (in original packaging)</td> <td>&lt; 40 °C ; &lt; 90 % RH</td> </tr> <tr> <td>Storage Conditions (for single parts)</td> <td>-40 up to +85 °C</td> </tr> <tr> <td>Moisture Sensitivity Level (MSL)</td> <td>3</td> </tr> </table>	Operating Temperature	-30 up to +85 °C	Storage Conditions (in original packaging)	< 40 °C ; < 90 % RH	Storage Conditions (for single parts)	-40 up to +85 °C	Moisture Sensitivity Level (MSL)	3	<p><b>General Information:</b></p> <table border="1"> <tr> <td>Operating Temperature</td> <td>-40 up to +85 °C</td> </tr> <tr> <td>Storage Conditions (in original packaging)</td> <td>&lt; 40 °C ; &lt; 90 % RH</td> </tr> <tr> <td>Storage Conditions (for single parts)</td> <td>-40 up to +100 °C</td> </tr> <tr> <td>Moisture Sensitivity Level (MSL)</td> <td>1</td> </tr> </table>	Operating Temperature	-40 up to +85 °C	Storage Conditions (in original packaging)	< 40 °C ; < 90 % RH	Storage Conditions (for single parts)	-40 up to +100 °C	Moisture Sensitivity Level (MSL)	1
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**RELIABILITY / QUALIFICATION SUMMARY:**

Product approval is according to the specification and is 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	Life-span in high temperature	30	Internal Spec.	Dehumidification in 125 °C for 2 hours 30 mins @ 25°C Measurement: 1,2,3,4,5 On board for 1 time Reflow Test conditions: Forward current: 30mA @ 125°C in 96h
3	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
4	ESD Characterization	30	AEC - Q101-001 Rev-A.	2000V for AlInGaP 1000V for InGaN forward pulse: 3 times reversed pulse: 3 times pulse width: 1 second
5	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.