



## Product/Process Change Notice (PCN)

- ☒ Major Change  
☐ Minor Change

|                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PCN Number:</b> PCN_IndCNSW_20250620<br><br><b>Affected Series:</b> WE-CNSW<br><br><b>Affected Part Number:</b> 744232090, 744232161, 744232261, 744232601,<br>744232102, 744232222, 744232101<br><br><b>PCN Date:</b> 2025-03-20 (YYYY-MM-DD)<br><b>Effective Date:</b> 2025-06-20 (YYYY-MM-DD) | <b>Change Category:</b><br><input checked="" type="checkbox"/> Equipment/Location<br><input type="checkbox"/> General Data<br><input type="checkbox"/> Material<br><input type="checkbox"/> Process<br><input type="checkbox"/> Product Design<br><input type="checkbox"/> Shipping/Packaging<br><input type="checkbox"/> Supplier<br><input type="checkbox"/> Software |
| <b>Contact:</b> Product Management<br><b>Phone:</b> +49 (0) 7942 - 945 5001<br><b>Fax:</b> +49 (0) 7942 - 945 5179<br><b>E-Mail:</b> pcn.eisos@we-online.com                                                                                                                                        | <b>Datasheet Change:</b><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><br><b>Attachment:</b><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                        |

### DESCRIPTION OF CHANGE:

To increase the production capability, Würth Elektronik eiSos will implement an additional production line. There will be no change in form, fit, function, quality or reliability of the product. The new revision of the affected part numbers will be sent out after the previous revision is out of stock (according to FIFO - first-in, first-out).

### DETAILS OF CHANGE:

- The production lines can be identified by the first three digits of the lot number.
- Neither quality, electrical, nor mechanical properties will change. Therefore there will be also no datasheet change. All dimensions and standard packaging quantities will remain the same.

| Before Change                                                          | After Change                                                                                                                                     |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Lot number beginning with<br>246xxxxxxxxxx<br>Country of origin: China | Lot number beginning with<br>246xxxxxxxxxx<br>Country of origin: China<br>Lot number beginning with<br>576xxxxxxxxxx<br>Country of origin: China |

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#### RELIABILITY / QUALIFICATION OF CHANGE:

An additional reliability testing was performed and approved.

Qualification according to AEC-Q200 table 05.

Additional details of the tests can be found below:

| Acceptance Criteria |                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------|
| # 1                 | No physical damage and electrical property (Z, L, Rdc) meets datasheet both premeasurement and postmeasurement |
| # 2                 | Inspect device construction, marking and workmanship. Electrical test not required.                            |
| # 3                 | Electrical test not required. Dimension meets datasheet.                                                       |
| # 4                 | Electrical test not required, at least 95% wetted area.                                                        |
| # 5                 | Push off sample from PCB and force needs to be recorded.                                                       |

| Test Item                         | Sample Size | Reference            | Test Conditions                                                                                                                       | Acceptance Criteria |
|-----------------------------------|-------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| High Temperature Exposure         | 77          | MIL-STD-202-108      | 125 °C, 500 h                                                                                                                         | # 1<br>Approved     |
| Temperature Cycling               | 77          | JESD22 -A-104        | Preconditioning: Reflow 3 passes required<br>-40 °C to 125 °C,<br>dwell time: 15 min (minimum), Transfer time max. 1 min, 1000 cycles | # 1<br>Approved     |
| Humidity Bias                     | 77          | MIL-STD-202-103      | Preconditioning: Reflow 3 passes required<br>85 °C, 85% RH, 1000 h                                                                    | # 1<br>Approved     |
| High Temperature Operational Life | 77          | MIL-STD-202-108      | Preconditioning: Reflow 3 passes required<br>85 °C, 1000 h,<br>Rate current according to datasheet                                    | # 1<br>Approved     |
| External Visual                   | All         | MIL-STD-883-2009     | N/A                                                                                                                                   | # 2<br>Approved     |
| Physical Dimension                | 30          | JESD22 Method JB-100 | N/A                                                                                                                                   | # 3<br>Approved     |
| Mechanical Shock                  | 30          | MIL-STD-202-213      | 3 shocks in each direction (x, -x, y, -y, z, -z), peak value 100 g's, duration 6 ms, half-sine, velocity change 12.3 ft/sec.          | # 1<br>Approved     |
| Vibration                         | 30          | MIL-STD-202-204      | 10 g's for 20 min, 12 cycles each of 3 orientations, test from 15 Hz to 2000 Hz                                                       | # 1<br>Approved     |

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| Test Item                    | Sample Size | Reference                    | Test Conditions                                      |                                                                                                                                                                                                 | Acceptance Criteria |
|------------------------------|-------------|------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Resistance to Soldering Heat | 30          | J-STD-020                    | 260 °C, tp= 30 s to 35 s, 5 times reflow             |                                                                                                                                                                                                 | # 1<br>Approved     |
| ESD                          | 15          | AEC-Q200-002 or ISO/DIS10605 | Test Environment: 22 °C ± 5 °C, Humidity: 30% to 60% |                                                                                                                                                                                                 | # 1<br>Approved     |
|                              |             |                              | Product Type                                         | Component Classification                                                                                                                                                                        |                     |
|                              |             |                              | 1206                                                 | 6                                                                                                                                                                                               |                     |
| Solderability (SMD)          | 15          | J-STD-002                    | Condition B1                                         | Preconditioning: Dry Bake 4 h ± 15 min @155 °C Dip and Look Test (Leadless) Solder Angle: 20 ° to 45 ° Solder temperature: 245 °C ± 5 °C Solder immersion time: 5 s                             | # 1<br>Approved     |
|                              | 15          |                              | Condition D                                          | Preconditioning: Dry Bake 4 h ± 15 min @155 °C Resistance to Dissolution of Metallization Solder Angle: 20 ° to 45 ° Solder temperature: 260 °C ± 5 °C Solder immersion time: 30 s + 5 s / -0 s | # 4<br>Approved     |
| Electrical Characterization  | 30          | User Spec.                   | Measure electrical property @ 20 °C, 125 °C, -40 °C. |                                                                                                                                                                                                 | # 1<br>Approved     |
| Board Flex                   | 30          | AEC-Q200-005                 | Bending 2 mm (minimum), 60 s to 65 s                 |                                                                                                                                                                                                 | # 1<br>Approved     |
| Terminal Strength(SMD)       | 30          | AEC-Q200-006                 | Product Type                                         | Push Off Force (N)                                                                                                                                                                              | # 5<br>Approved     |
|                              |             |                              | 1206                                                 | 10                                                                                                                                                                                              |                     |
| Low Temperature Storage Life | 77          | JESD22-A119                  | -40 °C, 1000 h                                       |                                                                                                                                                                                                 | # 1<br>Approved     |