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_VarVS_20200227             | Change Category:   |  |  |  |  |
| Affected Series:  | WE-VS-Series; All part numbers | <ul> <li>Equipment / Location</li> <li>General Data</li> <li>Material</li> </ul>                     |  |  |  |  |
| PCN Date:   | November 27, 2019              | Process  |  |  |  |  |
| Effective Date:   | February 27, 2020              | <ul> <li>Product Design</li> <li>Shipping / Packaging</li> <li>Supplier</li> <li>Software</li> </ul> |  |  |  |  |
| Contact:  | Product Management             | Data Sheet Change:   |  |  |  |  |
| Phone:  | +49 (0) 7942 - 945 5001        | 🖂 Yes 🛛 No   |  |  |  |  |
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| E-Mail:   | pcn.eisos@we-online.com        | □ Yes  |  |  |  |  |

### DESCRIPTION AND PURPOSE OF CHANGE:

To improve the processability, Würth Elektronik will change the recommended land pattern of all sizes of the WE-VS series. This includes the sizes 0402, 0603, 0805 and 1206.

This change is done to reduce the following risks when using an oversized land pattern:

## 1) Tombstone Effect

Reduces the risk of parts rising on one side during soldering which leads to a bad or missing connection to the second solder pad.

#### 2) Swimming

Reduces the risk of swimming parts meaning that the part will not be centered on the land pattern if the solder pads are either too big or have the wrong distance.

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

This change only concerns the land pattern which are recommended to be used.

Würth Elektronik eiSos GmbH & Co. KG Sitz Waldenburg, Registergericht Stuttgart HRA 580801

Komplementär Würth Elektronik eiSos Verwaltungs-GmbH, Sitz Waldenburg, Registergericht Stuttgart HRB 581033 · Geschäftsführer Oliver Konz, Thomas Schrott, Alexander Gerfer, Thomas Wild Bankverbindungen UniCredit Bank AG Stuttgart, Konto 322 620 136, BLZ 600 202 90, IBAN DE86 6002 0290 0322 6201 36, SWIFT/BIC HYVEDEMM473 USt.-IdNr. DE220618976

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| Size & Dimensions |           |           |           |           | Drawing |
|-------------------|-----------|-----------|-----------|-----------|---------|
| Size              | Α         | В         | С         | D         |         |
| 0402              | 0.4 - 0.6 | 1.0 - 1.8 | 0.6 - 0.7 | 0.6 - 1.2 |         |
| 0603              | 0.8 - 1.2 | 1.7 - 3.0 | 1.2 - 1.6 | 0.9 - 1.8 | C       |
| 0805              | 1.0 - 1.5 | 2.1 - 3.8 | 1.5 - 2.1 | 1.1 - 2.3 |         |
| 1206              | 1.8 - 2.5 | 3.0 - 5.8 | 1.8 - 2.6 | 1.2 - 3.3 |         |
|                   |           |           | •         |           | A>      |
|                   |           |           |           |           | ◄ B►    |

## New recommended land pattern dimensions

| Size | Drawing |
|------|---------|
| 0402 |         |
| 0603 |         |
| 0805 |         |
| 1206 |         |

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The new recommended land pattern will also be available in the datasheets as shown in the table above with effective date of this PCN.

# **RELIABILITY / QUALIFICATION SUMMARY:**

There will be no change of the product, therefore no additional reliability or qualification testing will be performed which is referring to electrical behaviour or material.

The new land pattern design was tested and verified with the following tests:

- Solderability (according JEDEC J-STD-020)
- Vibration 10G (according MIL-STD 202-204)
- Terminal Strength (according to an internal specification)

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