



Product / Process Change Notification (PCN)

- Major Change
 Minor Change

PCN Number: PCN_FeSAFB_20250101

Affected Series: WE-SAFB

Affected Order Codes: See table below

PCN Date: 2024-10-01 (YYYY-MM-DD)

Effective Date: 2025-01-01 (YYYY-MM-DD)

Change Category:

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

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Datasheet Change:

Yes No

Attachment:

Yes No

Description of Change:

For the purpose of a datasheet information enlargement and internal standardization, Würth Elektronik eiSos will implement a new measurement setup to improve the accuracy and extend the comparability of values.

This is a measurement method and datasheet visualization change only. There will be no change in form, fit, function, quality or reliability of the product.

A support note is attached describing the background of the change.



Details of Change:

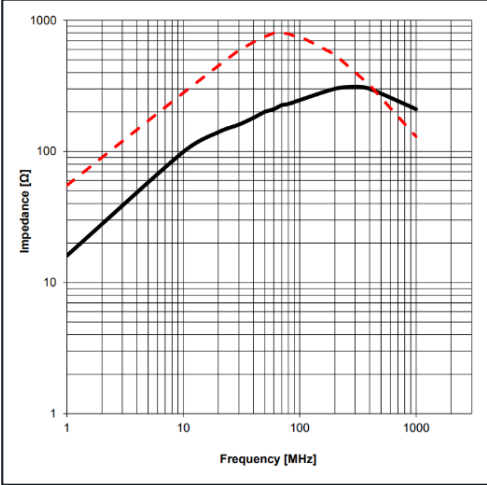
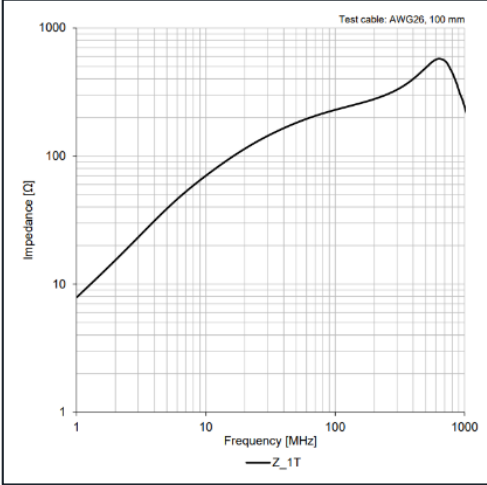
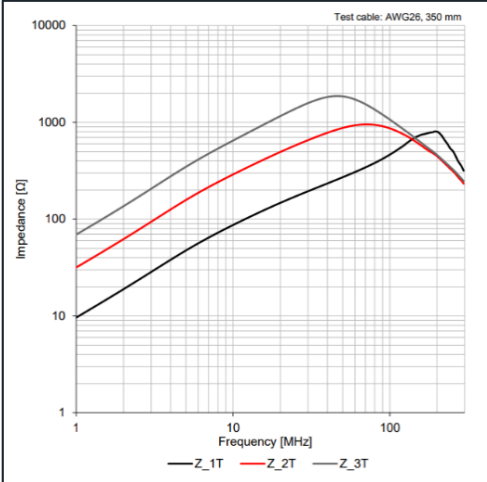
- The measurement setup will change to an internal standardized measurement setup, which uses a different length of measurement cable as the previous method - the cable length is defined in steps of 50 mm and depends on the length of the component.
 - Shortest possible cable for specification (**Electrical Properties**)
 - Shortest possible cable for 3 turns for typical impedance characteristics
- The content of the “**Electrical Properties:**” table will change:
 - The typical property “**Impedance @ xx MHz 2 turns**” will be removed
 - “**Test conditions**” will change to “Test cable: THICKNESS, LENGTH”

| Before change: | | | | | After change: | | | | | | |
|---------------------------|---|-----------------|-------|------|---------------|---------------------------|---|---------------------------|-------|------|------|
| Properties | | Test conditions | Value | Unit | Tol. | Properties | | Test conditions | Value | Unit | Tol. |
| Impedance @ 1 MHz 1 turn | Z | 1 MHz | 130 | Ω | ±25% | Impedance @ 1 MHz 1 turn | Z | Test cable: AWG26, 100 mm | 136 | Ω | ±25% |
| Impedance @ 10 MHz 1 turn | Z | 10 MHz | 100 | Ω | ±25% | Impedance @ 10 MHz 1 turn | Z | Test cable: AWG26, 100 mm | 82 | Ω | ±25% |

- “**Value**” will change according to the results of the new standardized measurement setup with the shortest possible cable length:

| Order Code Impedance @ | Before change: | | After change: | | |
|-------------------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------------|
| | 25 MHz 1 turn (Ω) | 100 MHz 1 turn (Ω) | 25 MHz 1 turn (Ω) | 100 MHz 1 turn (Ω) | short cable length (mm) |
| 7427002 | 65 | 125 | 53 | 79 | 50 |
| 74270001 | 38 | 52 | 42 | 57 | 50 |
| 74270010 | 31 | 55 | 42 | 64 | 50 |
| 74270011 | 28 | 41 | 27 | 44 | 50 |
| 74270012 | 39 | 47 | 33 | 51 | 50 |
| 74270014 | 45 | 68 | 48 | 60 | 50 |
| 74270015 | 50 | 95 | 52 | 79 | 50 |
| 74270017 | 95 | 145 | 100 | 138 | 50 |
| 74270020 | 71 | 108 | 60 | 103 | 50 |
| 74270021 | 55 | 88 | 53 | 79 | 50 |
| 74270022 | 35 | 59 | 39 | 54 | 50 |
| 74270023 | 90 | 160 | 99 | 148 | 50 |
| 74270024 | 72 | 119 | 74 | 106 | 50 |
| 74270025 | 82 | 136 | 86 | 123 | 50 |
| 74270071 | 28 | 40 | 23 | 41 | 50 |
| 74270073 | 35 | 50 | 30 | 53 | 50 |
| 742700121 | 26 | 50 | 27 | 50 | 50 |
| 742700221 | 20 | 45 | 18 | 33 | 50 |
| 742700713 | 39 | 58 | 31 | 54 | 50 |
| 742700726 | 144 | 278 | 131 | 224 | 50 |
| 742700727 | 60 | 115 | 76 | 118 | 50 |
| 7427007141 | 25 | 45 | 25 | 46 | 50 |

3. The visualization of chart for the “**Typical Impedance Characteristics**” changes. The used type of cable and cable length is shown in each chart.

| Before change: | After change: |
|---|---|
| <ul style="list-style-type: none"> Showing only one graph with 1 turn (1T) and 2 turns (2T) impedance curves.  | <ul style="list-style-type: none"> Showing a graph for the 1 turn (Z_1T) impedance curve with the shortest possible cable length according to the product.  |
| <ul style="list-style-type: none"> Showing no graph with 3 turns impedance curve. | <ul style="list-style-type: none"> Showing a graph for 1-3 turns (Z_1T, Z_2T, Z_3T) impedance curves with the shortest possible cable length, which is required for 3 turns according to the product.  |

Reliability / Qualification of Change:

There will be no change of the product, therefore no additional reliability or qualification testing was performed.