

Würth Elektronik eiSos GmbH &amp; Co. KG

EMC &amp; Inductive Solutions

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## Product / Process Change Notification (PCN)

- Major change  
 Minor change

<p><b>PCN #:</b> PCN_WCAP-CSSA_20200524</p> <p><b>Affected Series:</b> WCAP-CSSA; 885 35x xxx xxx; 88536x xxx xxx</p> <p><b>PCN Date:</b> Febuary 24, 2020</p> <p><b>Effective Date:</b> May 24, 2020</p>	<p><b>Change Category:</b></p> <p><input type="checkbox"/> Equipment / Location  <input checked="" type="checkbox"/> General Data  <input checked="" type="checkbox"/> Material  <input type="checkbox"/> Process  <input type="checkbox"/> Product Design  <input type="checkbox"/> Shipping / Packaging  <input type="checkbox"/> Supplier  <input type="checkbox"/> Software</p>
<p><b>Contact:</b> Product Management</p> <p><b>Phone:</b> +49 (0) 7942 - 945 5001</p> <p><b>Fax:</b> +49 (0) 7942 - 945 5179</p> <p><b>E-Mail:</b> pcn.eisos@we-online.com</p>	<p><b>Data Sheet Change:</b></p> <p><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p> <p><b>Attachment:</b></p> <p><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p>

### DESCRIPTION AND PURPOSE OF CHANGE:

Due to an improvement of the production capability, Würth Elektronik will change the material composition of the termination.

The actual parts with NME terminals will be available in certain quantities until Q3/2020. In parallel all new P/N with BME terminals are already available.

The components with the new BME type terminations meet the same quality standards like before and passed all test standards without any constraints. Please refer to the attached document about the applied test standards.

For the purpose of a datasheet information enlargement, Würth Elektronik changed the whole layout of the datasheet.

**DETAIL OF CHANGE:**

The continuous improvements on materials in MLCC production will lead to a change from NME (Noble Metal Electrode) to BME (Base Metal Electrode) terminals for the series WCAP-CSSA. This change will improve the processability and ensure a high level of market accessibility without causing negative influences on appearance, mechanical or electrical characteristics.

	<b>Actual NME (Noble Metal Electrode) Termination Structure</b>	<b>Future BME (Base Metal Electrode) Termination Structure</b>
Inner Electrode	PdAg	Ni
Dielectric Material	BaTiO <sub>3</sub>	CaZrO <sub>3</sub>
Termination Layer 1 (inner)	Ag	Cu
Termination Layer 2 (middle)	Ni	Ni
Termination Layer 3 (outer)	Sn (matte)	Sn (matte)

For the BME (Base Metal Electrode) Termination the Part number will also change:

<b>Old Part number [NME (Nobel Metal Electrode) Termination Structure]</b>	<b>New Part number [BME (Base Metal Electrode) Termination Structure]</b>
885352010007	8853520100071
885362010009	8853620100091
885362010011	8853620100111
885362010017	8853620100171
885362210009	8853622100091
885362210013	8853622100131
885352210013	8853522100131
885362210017	8853622100171
885352211001	8853522110011
885352211002	8853522110021
885352211003	8853522110031
885362211011	8853622110111
885362211015	8853622110151
885352213011	8853522130111
885352213015	8853522130151
885352214001	8853522140011
885362210018	8853622100181

For the purpose of a datasheet information enlargement, Würth Elektronik added the following information:

- Technical partnumber
- Logos of RoHS / REACH / Halogenfree and other important certificates
- MSL – Level with the storage conditions
- Packaging information for the WCAP-CSSA Series

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- Table of certificates if available for the parts.

#### RELIABILITY / QUALIFICATION SUMMARY:

Product approval is according to the specification and is internally released by the Product Management Department. The specific test report is available on request.

The components with the new BME type terminations meet the same quality standards like before and passed all test standards without any constraints. Please refer to the attached document about the applied test standards.

Both related certificates, TUV and UL remain unchanged and valid without any further notice. TUV and UL certificates already cover both termination technologies, NME and BME.