

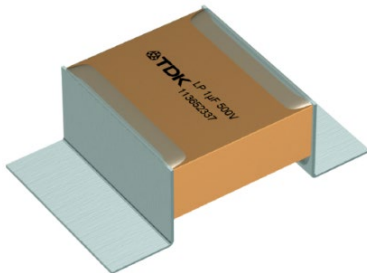
August 7, 2015

Product change Optimized design and improved polarity marking of CeraLink capacitors

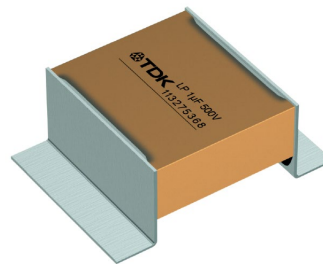
From November 2015, the design of the B58031I5105M002 series of CeraLink™ capacitors will be slightly modified. Product qualification will be based among other things on the AEC-Q200 requirements. The capacitors are thus also approved for automotive electronics applications. The specified electrical properties and the solder pad layout of the affected capacitors remain unchanged.

The changes in detail

- Change in lead-frame material from copper (Cu) to a new hybrid material (Cu-Invar-Cu).
- Reduction in thickness of the lead frames from 0.2 to 0.15 mm.
- Change in color of the two epoxy resin adhesive beads on the underside of the product from milky white to black.
- Elimination of epoxy resin adhesive beads on top of the product.
- Addition of a line to the existing laser marking to enable better visual identification of the polarity.



Previous design



New design

To permit clear distinction and improved tracking, the suffix V01 will be added to the ordering codes. The packaging labels and shipping documents will thus show the 18-digit code B58031I5105M002V01. For customers, both the 15-digit ordering code (B58031I5105M002) and the ordering process remain unchanged. Samples with the new design are already available. Until the modified product reaches series status, samples can be obtained via the temporary ordering code Z63000Z2910Z01Z10.

Scheduled date of introduction: November 9, 2015

Enclosure PCN (ID No. PPD10/T120)

Contact Dr. Stefan Benkhof, PPD PI PM, Munich

Customers are asked to address inquiries directly to their sales contacts.

EPCOS AG · A TDK Group Company

Office: St.-Martin-Strasse 53, 81669 Munich · Post: P.O.Box 80 17 09, 81617 Munich, Germany

Headquarters: Munich · Commercial register of the local court (Amtsgericht): Munich HRB 127250

Chairman of the Supervisory Board: Dr. Werner Faber

Management Board: Joachim Zichlarz, Chairman · Joachim Thiele · Dr. Norbert Hess · Christian Block

www.epcos.com

**Multilayer Ceramic
Capacitors**

Internal / External

150807CER1e

Product / Process Change Notification

1. ID No.: PPD10/T120		2. Date of announcement: August 7, 2015	
3. Product / product group: CeraLink™ capacitors	Old ordering code: B58031I5105M002	New ordering code: No change	Customer part number:
4. Description of change: <p>In order to allow the qualification of the product for automotive applications (qualification based on AEC-Q200 Rev. D), the following changes are being introduced:</p> <ul style="list-style-type: none"> - Change of the lead-frame material from silver-coated copper to silver-coated copper-invar-copper. - Reduction of thickness of lead frames from 0.2 mm to 0.15 mm. - Change of color of the two epoxy resin adhesive beads on the underside of the product from milky white to black. - Elimination of epoxy material on top of ceramic body (Old: epoxy resin was applied on both the top and bottom of the ceramic body. New: epoxy resin is applied only on the bottom of the ceramic body). <p>In order to improve the visibility of the polarity marking, the following change is being introduced:</p> <ul style="list-style-type: none"> - Added line for polarity marking on the upper side of the ceramic body (laser marking) in order to identify the negative electrode. <p>The specified electrical properties and the solder pad layout of the affected capacitors remain unchanged. To permit clear distinction and tracking, the suffix V01 will be added to the ordering codes on labels and shipping documents: B58031I5105M002V01.</p> <p>For customers, both the 15-digit ordering code B58031I5105M002 and the ordering process remain unchanged.</p>			
5. Effect on the product or for the customer (benefit, quality, specification, lead time): <p>Improvement of mechanical and thermo-mechanical ruggedness. Increased visibility of polarity marking. Automotive qualification based on AEC-Q200 Rev. D.</p>			
6. Quality assurance measures / risk assessment: <p>The release procedure is according to ISO/TS 16949. Traceability is assured with the suffix V01 on labels and delivery documents. The internal release showed no effects on the electrical characteristics as a consequence of the change described in item 4. The established control plans will consequently not be changed. All quality assurance measures will be maintained.</p>			
7. Scheduled date of change: November 9, 2015			
8. Estimated date of first delivery of changed product: November 9, 2015 <p>If EPCOS does not receive notification to the contrary within a period of 10 weeks, EPCOS assumes that the customer agrees to the change. For an interim period we cannot rule out that old as well as new products will be shipped.</p>			
Quality Management Name Markus Weiglhofer		Signature signed Weiglhofer	
Product Marketing Name Dr. Stefan Benkhof Tel. +49 89 540202970 Email stefan.benkhof@epcos.com		Signature signed Dr. Stefan Benkhof	

Customer feedback	
Customer acknowledgement	Signature