



DOCUMENT CHANGE REQUEST

DCR number 744 Changes required for: General

Date: 2015/07/14

Date sent: 2012/06/18

Originator: Steve Thacker

Organisation: ESCC Executive
Secretariat

Status: IMPLEMENTED

Title: Capacitors, fixed, chips, ceramic dielectric type II, based on type 0603

Number: 3009/038

Issue: 1

Other documents affected:

Page:

Total reformat/re-write of ESCC Detail Specification 3009/038 issue 1 as part of the ongoing conversion of legacy ESA/SCC specifications to the ESCC format as well as reflecting changes resulting from the conversion of ESCC Generic Specification No. 3009 issue 1 (per DCR695 & also DCR706).

The layout, format and general content of 3009/038 issue 2 is based on other converted ESCC Detail Specifications (see attached for proposed 3009/038 issue 2 Draft A).

The technical content of ESCC 3009/038 issue 2 remains closely based on the original ESCC 3009/038 issue 1 except as detailed herein.

Paragraph:

see below

Original wording:

see original ESCC 3009/038 issue 1

Proposed wording:

Total reformat of this Detail Specification (from the range of various ESCC Detail Specifications, 3009/xxx, for capacitors under Generic Specification No. 3009) as part of the ongoing conversion to the ESCC format.

See below for summary of changes, also see attached the proposed 3009/038 Issue 2 Draft A.

Note: known support for active procurement against this specification includes the following Manufacturers:

- Eurofarad/France (is willing to support procurement of Variants 03, 06, 07, 08, 10, 11).
- Syfer/UK (is willing to support procurement of Variants 01, 06, 07, 08, 09, 11).

Summary of changes to the current format, layout and content is as follows:

1) General

Rewording and restructure of various sections and paragraphs of the specification, plus other editorial changes based on

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the layout and editorial content of other Detail Specifications already converted to ESCC format.

In addition, editorial and technical amendments resulting from the changes made to the test requirements of the Generic Specification No. 3009.

Specific amendments include:

- Table 3: Delete Insulation Resistance, and Temperature Characteristic for each capacitance value [Test No. 5(i)] (due to SCC level B being deleted)
- Para 4.2.2(a) Para 4.2.3(a), Para 4.2.4(a), Para 4.2.5(a): Delete deviations on De-Ageing which is now covered by the Generic Spec
- Para 4.2.2(a) & Para 4.2.3(a): Delete deviations on Insulation Resistance & Voltage proof, all now covered by the Generic Spec (ref DCR706)
- Para. 4.7.1 & Table 4 is deleted (due to SCC level B being deleted)
- Table 6 only includes specified electrical measurement requirements as required for the various Chart F4 Qual level tests (editorial change)
- Table 6: Adhesion is renamed as Robustness of Terminations
- Table 6: add note that the capacitance values recorded during Mounting may be used as initial measurements for other tests (to provide the same flexibility included in 3009 issue 1)

2) Table 1(a) Note 1: The capacitance ranges are amended to clarify the maximum values for value series E6/20% (in the 200V, 100V & 25V ranges)

3) Figure 3. Functional Diagram is simplified (i.e. symbol 'C' is removed)

4) Para 4.2.2(b) Para 4.2.3(b), Para 4.2.4(b), Para 4.2.5(b): Delete deviations on Temperature Characteristic (which are now covered by Para 2.3.2 Note 3 in issue 2)

5) Table 2 & Table 6: Units for Insulation Resistance are rewritten as Mohm.uF (instead of 's')

6) Table 2: Add note on capacitance limits prior to Burn-in (to be consistent with other 3009/xxx type II specs)

7) Table 3 Temperature Coefficient - Test No. 5(ii) (Para 2.3.2 in issue 2)

Amend remark to read "... 5 components from each manufacturing lot ..." (instead of "5 parts for each dielectric lot") (to be consistent with ESCC terminology & the Generic spec).

Clarify that Temperature Characteristic for VT = UR, is not applicable & not measured for Variants 07, 09, 10, 11.

8) Table 5 (Para 2.5 in issue 5). Delete test conditions that are already specified in the Generic spec (Temperature &



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Voltage).

Justification:

Part of the ongoing conversion of legacy ESA/SCC specifications to the ESCC format. Amendments are made to the format and presentation to be consistent with the various other ESCC Detail Specifications, already converted to ESCC format, as well as the ESCC Generic Specification No. 3009 issue 2.

See also change details for justification for specific items above.

Attachments:

3009038_draft_2g_for_final_review.docx, 3009038_draft_2a_in_review.pdf

Modifications:

draft 2 g is approved

Approval signature:

Date signed:

2015-07-14