



## DOCUMENT CHANGE REQUEST

DCR number	743	Changes required for:	General	Originator:	Steve Thacker
Date:	2015/07/14	Date sent:	2012/06/18	Organisation:	ESCC Executive Secretariat
Status:	IMPLEMENTED				

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

Number: 3009/037 Issue: 1

Other documents affected:

Page:

Total reformat/re-write of ESCC Detail Specification 3009/037 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 3009/037 issue 2 is based on other converted ESCC Detail Specifications (see attached for proposed 3009/037 issue 2 Draft A).

The technical content of ESCC 3009/037 issue 2 remains closely based on the original ESCC 3009/037 issue 1 except as detailed herein.

Paragraph:

see below

Original wording:

see original ESCC 3009/037 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 3009/037 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, 08).
- Syfer/UK (is willing to support procurement of Variants 01, 06, 08).

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 Coefficient 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): Delete deviations on Insulation Resistance & Voltage proof 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) Figure 3. Functional Diagram is simplified (i.e. symbol 'C' is removed)

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

The default test conditions per the generic spec now apply. i.e. the +/-30ppm/C limit applies over the full temperature range: -55C to +125C (was only specified for temp range +20C to +125C)

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).

Add Note 3 to clarify that TC is not specified for low values Cn 20pF (to be consistent with other 3009/xxx specs)

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

3009037\_draft\_2g\_for\_final\_review.docx, 3009037\_draft\_2a\_in\_review.pdf

Modifications:

Draft 2 g is approved

Approval signature:

A handwritten signature in black ink, appearing to read "R. S. Hart" with a stylized flourish at the end.

Date signed:

2015-07-14