



## DOCUMENT CHANGE REQUEST

DCR number	727	Changes required for:	General	Originator:	Steve Thacker
Date:	2017/10/11	Date sent:	2012/05/17	Organisation:	ESCC Executive Secretariat
Status:	IMPLEMENTED				

Title: Capacitors, Fixed, Multiple Layer, Ceramic Dielectric, Type II, Based on Type CNC31, CNC32,

Number: 3001/037 Issue: 1

Other documents affected:

Page:

Total reformat/re-write of ESCC Detail Specification 3001/037 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. 3001 issue 1 (per DCR694).

The layout, format and general content of 3001/037 issue 2 is based on other converted ESCC Detail Specifications (see attached for proposed 3001/037 issue 2 Draft B).

The technical content of ESCC 3001/037 issue 2 remains closely based on the original ESCC 3001/037 issue 1 except as detailed herein.

Paragraph:

see below

Original wording:

see ESCC 3001/037 issue 1

Proposed wording:

Total reformat of this Detail Specification (from the range of various ESCC Detail Specifications, 3001/xxx, for capacitors under Generic Specification No. 3001) as part of the ongoing conversion to the ESCC format.

See below for summary of changes, also see attached the proposed 3001/037 Issue 2 Draft B.

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

- Eurofarad/France (ESCC Qualified for all Variants)

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

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In addition, editorial and technical amendments resulting from the changes made to the test requirements of the Generic Specification No. 3001.

Specific amendments include:

- Paras 4.2.3 & 4.2.5 are deleted
- Table 2 & Table 6: Insulation Resistance and Voltage Proof are amended to clarify Dielectric & Body Insulation Resistance tests, as well as reflecting the test sampling specified in the Generic spec.
- Table 3: Delete Insulation Resistance (due to SCC level B being deleted)
- 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). Voltage Proof (Body Insulation) test is added to Climatic Sequence, Damp Heat Steady State & Operating Life tests for insulated variants.

2) Table 1(a), Para 4.4.1, (Para 1.4.2 in issue 2)

All component range and selection options (including Variant, Capacitance, tolerance, voltage, Package details, lead materials, weight) are brought together under a single Para. (editorial changes for clarification & consistency purposes).

3) Figure 3, Functional Diagram is simplified with an added note to clarify the terminal identification & connection.

4) Para 4.2.4: The deviations' details for Resistance to Soldering Heat are made also applicable to Solderability.

5) Para 4.3.3 & Appendix A Robustness of Terminations: The test conditions applicable to these devices are moved from the appendix to the main body of the spec (Para. 2.3 in issue 2)

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

7) Table 3 Temperature Characteristic (Para 2.4.2 in issue 2)

Clarify that the 1st test condition is 'VT = no voltage applied' (rather than 'VT = 0V')

Amend remark against Test No. 5 to read "... 5 components from each manufacturing lot ..." (instead of "5 parts for each lot") (to be consistent with ESCC terminology & the Generic spec).

8) Table 5 (Para 2.5 in issue 2): Delete test conditions that are already specified in the Generic spec (Temperature & Voltage).

Justification:



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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. 3001 issue 2.

See also change details for justification for specific items above.

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Page:

ALL

Paragraph:

ALL

Original wording:

-

Proposed wording:

Completely re-written; successive modifications were added in various stages of review up to the final draft 2e+, attached, prepared in February 2017 by the originator

Justification:

The final draft 2e+ is consistent with the final update of ESCC3001 and has been reviewed and accepted by CNES and Exxelia in August 2017

Attachments:

3001037\_draft\_2e+\_for\_dcr727\_mod\_(1).docx, 3001037\_draft\_2b\_in\_progress.pdf

Modifications:

N/A

Approval signature:

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

Date signed:

2017-10-11