DOCUMENT CHANGE REQUEST

DCR number 728	Changes required for: General	Originator: Steve Thacker
Date: 2016/11/14	Date sent: 2012/05/17	Organisation: ESCC Executive Secretariat
Status: IMPLEMENTED		

Title:	Capacitors, Fixed, Multiple Layer, Ceramic Dielectric, Type II, Based on Types CNC53, CNC54,		
Number:	3001/038	Issue:	1

Other documents affected:

Page:

Total reformat/re-write of ESCC Detail Specification 3001/038 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. 3001 issue 1 (per DCR694).

The layout, format and general content of 3001/038 issue 2 is based on other converted ESCC Detail Specifications (see attached for proposed 3001/038 issue 2 Draft A).

The technical content of ESCC 3001/038 issue 2 remains closely based on the original ESCC 3001/038 issue 1 except as detailed herein.

Paragraph:

see below

Original wording:

see ESCC 3001/038 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 3001/038 Issue 2 Draft A.

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: 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.

Attachments:

3001038_draft_2d_for_dcr728.pdf, 3001038_draft_2a_in_progress.pdf

Modifications:

Based on the review performed by the PSWG adhoc WG on ceramic capacitor generic specification as implemented into ESCC3001 issue 2, the following modifications shall apply to this DCR:

a) All changes, including these modifications, have been implemented in the new DCR attachment 3001/038 draft 2D (which shall replace the DCR attachment 3001/038 draft 2C).

b) Ref. original DCR item 1) General:
The following additional editorial and technical amendments resulting from the changes made to the test requirements of the Generic Specification No. 3001, shall apply:
• Table 6: Climatic Test Sequence requirements are deleted.
• Table 6: Damp Heat Steady State is deleted and replaced by Steady State Humidity (85/85) test requirements. Note - the Voltage Proof (Body Insulation) test, added by the original DCR, is not required for Steady State Humidity test.
• Table 6: Add notes applicable to Operating Life, to explain when the 1000h & 2000h measurements apply.

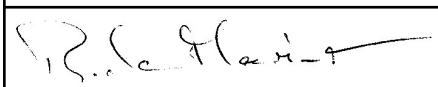
c) Ref. original DCR item 6) Table 2 & 6: units Gohm.nF are used for Insulation Resistance (instead of sec).

d) Ref. original DCR item 7): The required ambient temperatures are added to the Temperature Characteristic conditions.

e) 3001/037 draft 2C, Para. 2.1.1.1(a): The deviation “Resistance to Soldering Heat shall be performed prior to Robustness of Terminations” is deleted (as Chart F4 of the current Generic Specification does not include Robustness of Terminations.

Note that the Manufacturer’s name has changed since this DCR was originally raised (now Exxelia Technologies). Appendix A amended accordingly.

Approval signature:



Date signed:

2016-11-14