DOCUMENT CHANGE REQUEST

DCR number 1361	Changes required for: General	Originator: Steve Thacker
Date: 2020/10/20	Date sent: 2020/07/17	Organisation: ESCC Executive Secretariat
Status: IMPLEMENTED		

Title:	CAPACITORS, LEADLESS SURFACE MOUNTED, TANTALUM, SOLID ELECTROLYTE, LOW		
Number:	3012/004	Issue:	4

Other documents affected:

Page:

Total reformat/re-write of ESCC Detail Specification 3012/004 issue 4 as part of the ongoing conversion of legacy ESA/SCC specifications to the ESCC format as well as reflecting changes in the recently converted ESCC Generic Specification No. 3012 issue 4.

The layout, format and general content of 3012/004 Draft 5 is based on other converted ESCC Detail Specifications (see attached for proposed 3012/004 Draft 5).

The technical content of ESCC 3012/004 Draft 5 remains closely based on the original ESCC 3012/004 issue 4 except as detailed herein.

Paragraph:

as below

Original wording:

as per current spec

Proposed wording:

Total reformat of this Detail Specification (from the range of various ESCC Detail Specifications, 3012/xxx, for capacitors under Generic Specification No. 3012) as part of the ongoing conversion to the ESCC format.

See below for summary of changes, also see attached the proposed 3012/004 Draft 5.

Note: known support for active procurement against this specification includes the following Manufacturer:
• AVX-CZ

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

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. 3012.

Specific amendments include:

• Table 1(b) Note 2, Correct rated voltage for 330µF to be 10V (was 50V)

• Figure 1(a) is replaced by an equivalent note.

• Figure 2, replace figure with the same figure as in ESCC 3012/001 (Dimension W2 is deleted)

• Para 4.2, deviations are no longer required (requirements are moved).

• Para 4.5,
ESCC component number is amended (due to SCC level B/C being deleted)
Marking items now include ESCC qualified components symbol.

• Para 4.5.3.1, Option to indicated polarity by the ESA qualified components symbol is added (in Para. 1.6 note 1)

• Table 3: Capacitance change, Dissipation Factor and ESR limits are now absolute limits (i.e. based on specified min/max tolerance & % values) rather than on an actual change from the measurement at room temperature (due serial number traceability being deleted))
Sampling is fixed at 5/0 rather than AQL.

• Para. 4.7.1 & Table 4 is deleted (due to SCC level B being deleted)

• Para. 4.7.2, 4.8.4 & Table 5(a) & 5(b) is deleted (as the default condition per the Generic spec apply)

• Table 6 only includes specified electrical measurement requirements as required for the various Chart F4 Qual level tests (tests without electrical measurements are deleted) (editorial change).

• Table 6: Optional initial Capacitance measurement added to all tests with final Change of Capacitance measurement to provide flexibility during testing.

• Table 6: Adhesion is renamed as Robustness of Terminations

• Table 6: Add notes applicable to Operating Life, to explain when the 250h, 1000h & 2000h measurements apply.

• Appendix A, Deviation on Internal Visual Inspection is amended/clarified.

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 ESCC Generic Specification No. 3012 issue 4.

See also change details for justification for specific items above.

Attachments:

escc_3012004_draft_5c_for_review_per_dcr.docx

Modifications:

N/A

Approval signature:



Date signed:

2020-10-20