DOCUMENT CHANGE REQUEST

DCR number 1128	Changes required for: General	Originator: Steve Jeffery
Date: 2018/07/04	Date sent: 2017/11/22	Organisation: ESCC Executive
Status: IMPLEMENTED		

Title:	Capacitors Variable Concentric Trimmer Air Dielectric 1 to 10 pF Body Diameter 7.6 mm		
Number:	3010/004	Issue:	2

Other documents affected:

Page:

All.

Paragraph:

Total reformat/re-write of ESCC Detail Specification 3010/004 issue 2 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. 3010.

The layout, format and general content of 3010/004 issue 3 is based on other converted ESCC Detail Specifications, see the attached draft Detail specification that implements all the proposed changes:
3010004 draft 3A for DCR review.docx

The technical content of ESCC 3010/004 issue 3 remains closely based on the original ESCC 3010/004 issue 2 except as detailed herein.

Original wording:

See 3010/004 issue 2

Proposed wording:

Total reformat of this Detail Specification (one of a range of various ESCC Detail Specifications for capacitors under Generic Specification No. 3010) as part of the ongoing conversion to the ESCC format.

See below for summary of changes, also see attached the proposed 3010/004 issue 3.

Note: known support for active procurement against this specification includes the following Manufacturers:
• Exxelia Temex (formerly Tekelec Temex).

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 including deletion of any redundant paragraphs and information, based on the layout and editorial content of other Detail Specifications already converted to ESCC format.

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Specific amendments include:

2) Para 1.2 and Table 1(a): Type Variants (re-named “Component Type Variants”) Table is revised (e.g. “Temperature Coefficient” column is removed; “Figure” column replaced by “Case Description” column and accompanying Note).

3) Para 1.3 and Table 1(b), Maximum Ratings:
• Remark “Without derating” is replaced by “Tamb” for Operating Temperature Range Characteristic.
• New Note 2 added for the applicability of Panel Mount Tightening Torque Characteristic. Existing Note 2 is re-numbered Note 3.
• Units for the two “Torque” Characteristics are corrected from “cm.N” to “N.cm”.

4) Para 1.5 and Figure 2, Physical Dimensions: Text is added clarifying that the sealing cap is intentionally omitted from the case drawings.

5) Para 4.2, Deviations from Generic Specification, is revised: Paras. 4.2.2(a) and 4.2.3(b) are no longer necessary / no longer apply and are therefore deleted (the ESCC Testing Level is equivalent to “old” ESA/SCC Level C).

6) Weight limit requirements are moved to the Component Type Variants paragraph.

7) Para 4.3.3, Robustness of Terminations: paragraph is re-worded for clarification purposes.

8) Para 4.3.4, Resistance to Soldering Heat: paragraph is re-worded for clarification purposes.

9) Para 4.5.1, Marking (General): The information to be marked now includes “The ESCC qualified components symbol (for ESCC qualified components only).” for completeness.

10) Para 4.6.1 and Table 2 (was “Electrical Measurements at Room Temperature”, now “Room Temperature Electrical and Mechanical Measurements”):
• Change in Capacitance: Note 2 is now defined as a note to Limits instead of Conditions.
• Quality Factor: Sampling is amended to 3 components with no failures allowed.

11) Para. 4.6.2 and Table 3 (was “Electrical Measurements at High and Low Temperatures”, now “High and Low Temperatures Electrical Measurements”): The Test Condition for Insulation Resistance includes the test temperature (high temperature), with tolerance amended from “±3°C” to “(+0 -3)°C”.

12) Table 6 (Measurements and Inspections on Completion of Environmental Tests and at Intermediate Points and on Completion of Endurance Testing) is modified and incorporated into new Para “Intermediate and End-Point Electrical and Mechanical Measurements” (Para 2.6), e.g. the measurement conditions “at 0.75 CM” are replaced by an explanatory note; the duration condition for End-Stop Torque is deleted as it is now specified in Generic 3010; Mechanical Endurance is amended based on the existing requirements for this test in the Generic Spec, e.g. some Final Measurements are, in fact, not required and are therefore deleted; Temperature Coefficient is amended and now includes a Note (Note 3) giving rotor position details (which were previously only implied by the reference “Table 3”).
13) Appendix ‘A’ is modified for consistency purposes and to be in accordance with the ESCC format (i.e. Screening per

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Chart F3, and Qualification & Periodic Testing per Chart F4).

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 current issue of ESCC Generic Specification No. 3010.

See also change details above for justification for specific items.

Note: All changes in this DCR have been agreed with the one supporting Manufacturer Exxelia Temex.

Attachments:

3010004_draft_3a_for_dcr_review.docx

Modifications:

N/A

Approval signature:



Date signed:

2018-07-04