



DOCUMENT CHANGE REQUEST

DCR number 1009

Changes required for: Qualification

Originator: Steve Thacker

Date: 2016/11/17

Date sent: 2016/07/01

Organisation: ESCC Executive
Secretariat

Status: IMPLEMENTED

Title: RF Inductors Fixed Miniature Moulded SMD, based on series MSCI 10K and MSCI 12K

Number: 3201/008

Issue: 6

Other documents affected:

Page:

All

Paragraph:

Total reformat/re-write of ESCC Detail Specification 3201/008 issue 6 as part of the ongoing conversion of legacy ESA/SCC specifications to the ESCC format as well as reflecting changes resulting from the currently in progress conversion of ESCC Generic Specification No. 3201 issue 6.

The layout, format and general content of 3201/008 issue 7 is based on other already converted and published ESCC Detail Specifications.

The technical content of ESCC 3201/008 issue 7 remains closely based on the original ESCC 3201/008 issue 6 except as detailed herein.

For details of the proposed contents of ESCC 3201/008 issue 7, see the attached draft Detail Specification that implements all the proposed changes:

3201008 draft 7B for DCR Review.docx

Original wording:

See 3201/008 issue 6

Proposed wording:

Total reformat of this Detail Specification (from the range of various ESCC Detail Specifications, 3201/xxx, under Generic Specification No. 3201) as part of the ongoing conversion to the ESCC format.

See below for summary of changes, also see attached the proposed 3201/008 issue 7 that implements all changes per this DCR.

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

- Exxelia Magnetics (previously Microspire) /France (is willing to support procurement of all Variants & the full specified range of components).

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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.

In addition, editorial and technical amendments resulting from the changes proposed to be made to the test requirements of the Generic Specification as per ESCC No. 3201 draft 6.

Specific amendments include:

- Para 4.2.3(b) Deviation on Radiographic inspection is deleted.
- Para 4.3.3, Terminal Strength: Para is deleted in order to clarify that terminal strength testing is required.
- Para 4.7.1 & Table 4 are deleted
- Table 6, Thermal Shock: DC resistance limit is added
- Table 6, Temperature Rise: DC resistance measurements are added
- Table 6, Low Temperature Storage: is deleted.

2) Table 1(a), Range of Components: the test frequency column is clarified to apply to measurements of L & Q.

3) Table 1(a), Range of components: For 10K Series, 1 μ H, delete 2% tolerance and amend test frequency ft to be 25MHz (was 7.9Mhz) (typographic errors from previous issue)

4) Table 1(b) Maximum Ratings: amend maximum storage temperature to be +125C (was +140C) (typographic error from previous issue)

5) Figure 2 Dimension B for case sizes A & B: amend maximum limit to be 2.79mm (was 2.67mm) (to allow for specific construction details for Exxelia Magnetics)

6) Para 4.2.3(a), Table 3: Deviation on electrical Measurements at High and Low Temperatures (testing level C) is deleted. Note is added to Table 3 clarifying that Table 3 testing is only required on a lot being tested for qualification or maintenance of qualification (i.e. it is not required for procurement).

7) Para 4.2.4 & 4.2.5, Table 5(b) Deviation on Operating Life Test is added to apply no load during the test (as requested by Exxelia Magnetics)

8) Para 4.5.1 Note 1 & Appendix A, Marking: The colour code marking of inductance value on the top of the component body for some Variants, as applied by Exxelia Magnetics, is detailed in the appendix.

9) Para 4.7.2, Burn-in: the 24 $\pm$ 2 hours recovery period is amended to be 24 hours minimum (to provide flexibility during



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testing).

10) Table 2: For Inductance and Q Factor, frequency and current test conditions are included (for clarification purposes).

11) Appendix A:

Manufacturer's name is amended to be Exxelia Magnetics (was Microspire)

Deviations on Thermal Shock during Chart III are both deleted.

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. 3201 issue 7.

See also change details for justification for specific items above.

Note: the changes per this DCR have been agreed with ESA and ESCC qualified Manufacturer Exxelia Magnetics

Attachments:

3201008_draft_7b_for_dcr_review.docx, 3201008_draft_7c_for_dcr_review.docx

Modifications:

As per draft 7c and the following change:

Figure 2: increase dimension B for Case Size C from 3.38mm max to 3.45mm max.

Approval signature:

Date signed:

2016-11-17