



DOCUMENT CHANGE REQUEST

DCR number 641 Changes required for: General

Date: 2011/12/06

Date sent: 2011/01/05

Originator: Petra Pribanova

Organisation: AVX

Status: IMPLEMENTED

Title: Generic Specification for Capacitors Leadless Surface Mounted Tantalum Solid Electrolyte

Number: 3012

Issue: 1

Other documents affected:

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9.4 Electrical measurement - pages 20-21

9.4.1 General

New para 9.4.1.4 Equivalent Series Resistance

Paragraph:

9.4 Electrical measurement - pages 20-21

9.4.1 General

New para 9.4.1.4 Equivalent Series Resistance

Original wording:

Proposed wording:

9.4.1.4 Equivalent Series Resistance

Equivalent Series Resistance (ESR) shall be measured at a frequency 100 kHz ± 5 kHz. Measurement accuracy shall be within $\pm 5\%$ of the reading or ± 3 mOhm whichever is greater by means of a capacitance bridge.

Justification:

Based on current project ESTEC/Contract No.400010504/10/NL/PA Low ESR tantalum Capacitor Evaluation and Qualification will be advantageous to define Equivalent Series Resistance as electrical measurement.

Attachments:

N/A

Modifications:

The original Proposed Wording of Change for this DCR shall be replaced by the following:

Add new Para 9.4.1.4 as follows:

9.4.1.4 Equivalent Series Resistance

The following details shall apply:

(a) Test Frequency : $100 \pm 5\text{kHz}$

(b) Measurement accuracy: within $\pm 5\%$ of the reading or $\pm 3\text{ mOhm}$, whichever is greater

(c) Magnitude of polarizing voltage: Unless otherwise specified in the Detail Specification, the maximum dc bias shall be 2.2V for all ac measurements. The magnitude of the ac voltage shall be limited to 0.5Vrms maximum.

Paras 9.3.2, 9.9.3, 9.13.8, 9.15.2, 9.16.4, 9.17.1(f), 9.17.2(f) - Add ESR reference to the text in each applicable sentence as follows:

Approval signature:



Date signed:

2011-12-06