DOCUMENT CHANGE REQUEST

DCR number 706	Changes required for: General	Originator: Steve Thacker
Date: 2015/04/17	Date sent: 2012/02/06	Organisation: ESCC Executive Secretariat
Status: IMPLEMENTED		

Title:	Generic Specification for Capacitors Fixed Chips Ceramic Dielectric Types I and II		
Number:	3009	Issue:	1

Other documents affected:

Page:

ESCC 3009 issue 1, page 23
ESCC 3009 issue 1, page 24

ESCC3009 issue 2 Draft B, page16
ESCC3009 issue 2 Draft B, page16

Paragraph:

ESCC 3009 issue 1, Para 9.4.1.3
ESCC 3009 issue 1, Para 9.4.1.4.1

ESCC3009 issue 2 Draft B, Para 8.4.1.3
ESCC3009 issue 2 Draft B, Para 8.4.1.4

Original wording:

See below & original spec

Proposed wording:

Generic spec is proposed to be amended as follows:
Note - Either the currently published Generic spec issue 1, or converted Generic Draft 2B currently being reviewed by ESA per DCR rasied 22/11/2011.

A) Insulation Resistance Measurement:
Amend the duration of the applied voltage to be as follows:
- the duration of the applied voltage shall be sufficient to verify the specified insulation resistance limit is met, up to 1 minute maximum.

Note: currently the specified duration is 60 +/- 5 seconds

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B) Voltage Proof Measurement:
Amend the duration of the applied voltage to be as follows:
- the duration of the applied voltage shall be sufficient to verify no component breakdown or flashover, up to 1 minute maximum.

Note: currently the specified duration is 1 minute.

Justification:

The duration of the test should be sufficient to verify the test has been performed correctly and that the components meets the specified limits. Forcing a fixed duration of 1 minute is not warranted for these 2 tests, especially as burn-in for 168hours is performed at the same test voltage.
Minimising the duration of the test minimises the associated cost of performing the test on the full lot of components.

Attachments:

N/A

Modifications:

As per PSWG No 59 (27/6/2013) Unanimously approved with disposition named solution 2 as per Astrium/Alain Mouton email dated 13-6-2013. Here below the solution 2 text which is a sentence derived from the TM 302 of MIL-STD-202: disposition.

The voltage shall be applied continuously during one minute (max)
before the reading of the resistance.
If the specified limit is met, and steady or increasing, then the test
may be stopped before the end of the Minute

Approval signature:

Date signed:

2015-04-17