	<b>ESC</b>	C		DC	CUMENT	CHANGE REQUEST				
DCR number	774 Changes required for:			General		Originator: Steve Thacker				
Date: 2016/11/14 Date sent: 2013/02/0			2013/02/06	3		Organisation: ESCC Executive Secretariat				
Title:	Capacitors Fixed Ceramic Dielectric Type II,				based on type TCN83E					
Number:	3001/027 Issue:			1						
Other documents affected:										
Page:										
Total reformat/re-write of ESCC Detail Specification 3001/027 issue 1 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. 3001 issue 1 (per DCR694).										
The layout, format and general content of 3001/027 issue 2 is based on other converted ESCC Detail Specifications (see attached for proposed 3001/027 issue 2 Draft A).										
The technical content of ESCC 3001/027 issue 2 remains closely based on the original ESCC 3001/027 issue 1 except as detailed herein.										
Paragraph:										
see below										
Original wording	j:									
see ESCC 3001/027 issue 1										
Proposed wording:										
Total reformat of this Detail Specification (from the range of various ESCC Detail Specifications, 3001/xxx, for capacitors under Generic Specification No. 3001) as part of the ongoing conversion to the ESCC format.										
See below for summary of changes, also see attached the proposed 3001/027 Issue 2 Draft A.										
Note: known support for active procurement against this specification includes the following Manufacturer: • Eurofarad/France										
Summary of changes to the current format, layout and content is as follows:										
<ol> <li>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.</li> </ol>										

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Specification No. 300 Specific amendment • Figures 1, 4 & 5 ard • Paras 4.2.1, 4.2.2, • Table 2 & Table 6: Resistance tests, as • Table 3: Delete Ins • Table 4 is deleted (	01. s include: e deleted 4.2.3 & 4.2.5 ar Insulation Resis applicable, as v ulation Resistar (due to SCC lev	re deleted stance and Voltage Proo well as reflecting the test nce and Note 1 (due to S rel B being deleted)	f are amended to clari sampling specified in SCC level B being dele	•				
2) Table 1(b) Temperature Characteristic is removed from the Maximum Ratings Table (as it is a characteristic, not a maximum rating). Requirements are fully specified in Table 3 ( = Para.2.4.2 in issue 2).								
3) Figure 3: Functional Diagram note 1 is amended to read 'terminals' (was 'outputs').								
4) Para 3: symbol de	finition VT is de	eleted (no longer require	d, to be to be consiste	nt with ESCC 21300)				
5) Para 4.2.4: The Voltage Proof Body Insulation deviations are made applicable to the Climatic Test Sequence and Damp Heat Steady State tests in Chart F4.								
6) Para 4.5.3.1: Capacitance value code table is corrected to reflect the actual specified capacitance range.								
7) Para. 4.7.2: Add requirement for 24hours minimum recovery time after Burn-in (in order to provide the Manufacturer with flexibility & convenience when to perform the final measurements, and to be consistent with all other Type II capacitor specs)(was 24 +/-2 hours)								
8) Table 2: Add note 1 on capacitance limits (in order to provide more flexibility to the Manufacturer during testing, and to be consistent with Generic spec para.8.6.1.1(b) on capacitance ageing): i.e.								
"1. Capacitance limit	s may be adjus	ted to take into account	capacitance ageing, as	s specified in the Generic Specification."				
9) Table 2: Units for	Insulation Resis	stance are rewritten as N	/lohm.uF (instead of 'se	ec')				
<ul> <li>10) Table 3 Temperature Characteristic (Para 2.4.2 in issue 2)</li> <li>Clarify that the 1st test condition is 'VT = no voltage applied' (rather than 'VT = 0V')</li> <li>Amend Note 2 to read " 5 components from each manufacturing lot" (instead of "5 pieces from each dielectric lot") (to be consistent with ESCC terminology &amp; the Generic spec).</li> <li>Delete Note 3 and reference to Appendix 'A' in the main body of the spec (such an appendix reference is not required here and are non-standard for ESCC specs).</li> </ul>								
11) Table 5 (Para 2.0	6 in issue 2): De	elete test conditions that	are already specified i	n the Generic spec (Temperature &				

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Voltage).								
12) Table 6 Operating Life: It is clarified that the Tangent of Loss Angle and Voltage Proof tests only apply during the final measurements								
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. 3001 issue 2.								
See also change details for justification for specific items above.								
Attachments:								
3001027_draft_2a_in_r	eview.pdf, 30	01027_draft_2c_for_dc	r774_mod(2).pdf					
Modifications:								
Based on the review performed by the PSWG adhoc WG on ceramic capacitor generic specification as implemented into ESCC3001 issue 2, the following modifications shall apply to this DCR: a) All changes, including these modifications, have been implemented in the new DCR attachment 3001/027 draft 2C (which shall replace the original DCR attachment).								
<ul> <li>b) Ref. original DCR item 1) General:</li> <li>The following additional editorial and technical amendments resulting from the changes made to the test requirements of the Generic Specification No. 3001, shall apply:</li> <li>Para. 4.2.4 is deleted.</li> <li>Table 6: Climatic Test Sequence requirements are deleted.</li> </ul>								
<ul> <li>Table 6: Climatic Test Sequence requirements are deleted.</li> <li>Table 6: Damp Heat Steady State is deleted and replaced by Steady State Humidity (85/85) test requirements.</li> <li>Table 6: Add notes applicable to Operating Life, to explain when the 1000h &amp; 2000h measurements apply.</li> </ul>								
c) Ref. original DCR item 9) Table 2 & 6: units Gohm.nF are used for Insulation Resistance (instead of sec)								
d) Ref. original DCR item 10): The required ambient temperatures are added to the Temperature Characteristic conditions								
Note that the Manufacturer's name has changed since this DCR was originally raised (now Exxelia Technologies). Appendix A amended accordingly.								
Approval signature:								

R. C. Hari-

Date signed:

2016-11-14