	ESC	<u>;</u>	[C	CUMENT	CHANGE REQUEST	
DCR number	1028	1028 Changes required for: Qualification Originat				Originator: Jean-Paul Bussenot	
Date: 2017/11	1/29	Date sent: 2	2016/08/24			Organisation: CNES	
Status: IMPLE	EMENTED						
Title:	Generic Specification for Capacitors Fixed Ceramic Dielectric Types I and II						
Number:	3001 Issue: 3						
Other documen	Other documents affected:						
Page:							
22							
Paragraph:							
8.13 CAPACIT	ANCE-TEMPERAT	URE CHARAC	TERISTICS				
Original wording	g:						
 8.13 CAPACITANCE-TEMPERATURE CHARACTERISTICS The capacitance-temperature characteristics of the components shall be measured as specified in Intermediate and End-Point Electrical Measurements in the Detail Specification. The following details shall apply: Test Conditions: (a) For type I capacitors: Temperature Coefficient in accordance with Para. 8.6.1.5. (b) For type II capacitors: Temperature Characteristic in accordance with Para. 8.6.1.6. 							
Proposed wording:							
8.13 TEMPERA The temperatur Measurements	ATURE CHARACT re characteristics of in the Detail Speci	ERISATION the componen fication. The fol	ts shall be me lowing details	eas s sh	ured as specifiec all apply:	in Intermediate and End-Point Electrical	
(a) Insulation Resistance in accordance with Para 8.3.1.3 at maximum operating temperature rating ±2°C as specified in the Detail Specification.							
(b) For type I capacitors: Temperature Coefficient in accordance with Para. 8.6.1.3.							
(c) For type II capacitors: Temperature Characteristic in accordance with Para. 8.6.1.6.							
3001, 12.4 Chart F4 - rename box CAPACITANCE-TEMPERATURE CHARACTERISTICS to CAPACITANCE- TEMPERATURE CHARACTERISTICS							
Justification:							
Elimination of levels B and C resulted in an unwanted removal of High Temperature Insulation Resistance definition. In order to re-introduce the parameter, capacitance-temperature characteristics is changes to temperature characterisation and Insulation Resistance added to High and Low							

	ESC	C		DO	CUMENT	CHANGE REQUEST
DCR number	1028	Changes req	uired for:	Qualifi	ication	Originator: Jean-Paul Bussenot
Date: 2017/11	/29	Date sent: 2	016/08/24			Organisation: CNES
Status: IMPLE	MENTED					
Temperature Measurement Table in the detail specifications. In order to avoid changes (and cost addition) to previous situation, the performance of the measurement is limited to Chart F4 Qualification and Periodic Testing through the addition of a note to the High and Low Temperature Measurement Table. For procurement, this parameter is therefore guaranteed and not tested in a similar way as other parameters in ICs specifications for example.						
Title:	Capacitors Fixed Ceramic Dielectric Type II, based on type TCN83E					3E
Number:	3001/027		lssue:	3	3	
Other documen	ts affected:					
3001/028-3, 30 3009/006-6, 30 3009/038-4, 30	01/030-9, 3001/033-5 09/008-6, 3009/009-6 09/039-4, 3009/040-4	5, 3001/034-5, 6, 3009/010-5, 4, 3009/041-2,	3001/037-3 3009/011-3 3009/042-3	3, 300 5, 300 3, 300	1/038-3, 3009/ 9/022-6, 3009/ 9/043-2	003-7, 3009/004-6, 3009/005-6, 023-6, 3009/034-4, 3009/037-3,
Page:						
-						
Paragraph:						
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Original wording:						
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Proposed wordi	ng:					
see modification	n					
Justification:						
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	ESC		OCUMENT	CHANGE REQUEST			
DCR number	1028	Changes required for: Q	ualification	Originator: Jean-Paul Bussenot			
Date: 2017/11	ate: 2017/11/29 Date sent: 2016/08/24			Organisation: CNES			
Status: IMPLE	EMENTED						
Title:	Generic Specification for Capacitors Fixed Chips Ceramic Dielectric Types I and II						
Number:	3009 Issue: 4						
Other documen	Other documents affected:						
Page:							
21 and 28							
Paragraph:							
8.10 and 12.4							
Original wording	g:						
 3009 para 8.10 CAPACITANCE-TEMPERATURE CHARACTERISTICS The capacitance-temperature characteristics of the components mounted in accordance with Para. 8.6 shall be measured as specified in Intermediate and End-Point Electrical Measurements in the Detail Specification. The following details shall apply: Test Conditions: (a) For type I capacitors: Temperature Coefficient in accordance with Para. 8.3.1.5. (b) For type II capacitors: Temperature Characteristic in accordance with Para. 8.3.1.6. 							
Proposed wordi	ng:						
3009, 8.10 TEM The temperatur Measurements (a) Insulation R the Detail Spec (b) For type I ca (c) For type II c 3009, 12.4 Cha TEMPERATUR 3009/008, 2.3.2	IPERATURE CHAR re characteristics of t in the Detail Specific esistance in accorda ification. apacitors: Temperatu apacitors: Temperatu rt F4 - rename box C E CHARACTERIST 2 and 2.4 see append	ACTERISATION he components shall be me cation. The following details ince with Para 8.3.1.3 at ma ure Coefficient in accordance ure Characteristic in accord CAPACITANCE-TEMPERATICS and change note 7 accord ded implementation of chan	asured as specified shall apply: iximum operating to e with Para. 8.3.1.5 ance with Para. 8.3 FURE CHARACTE ordingly. ges.	d in Intermediate and End-Point Electrical emperature rating ±2°C as specified in 5. 8.1.6. RISTICS to CAPACITANCE-			
Justification:							
Elimination of le order to re-intro and Insulation F In order to avoid	evels B and C resulte duce the parameter, Resistance added to d changes (and cost	ed in an unwanted removal o capacitance-temperature of High and Low Temperature addition) to previous situati	of High Temperatur haracteristics is ch Measurement Tab on, the performanc	re Insulation Resistance definition. In anges to temperature characterisation ble in the detail specifications. e of the measurement is limited to Chart			

	SC	C	DOCUMENT	CHANGE REQUEST			
DCR number	1028	Changes required for:	Qualification	Originator: Jean-Paul Bussenot			
Date: 2017/11/29		Date sent: 2016/08/24		Organisation: CNES			
Status: IMPLEMEN	TED						
specifications for exa	mple.						
Attachments:							
original_text_of_dcr.p	odf, 3009008_c	lraft_5b_mftr_review.pdf					
Modifications:							
In order for full and proper implementation of this DCR the following other documents shall be included: ESCC 3001 ESCC 3009/xxx Detail Specifications (i.e. / 003, 004, 005, 006, 008, 009, 010, 011, 022, 023, 034, 037, 038, 039, 040, 041, 042, 043) ESCC 3001/xxx Detail Specifications (i.e. / 027, 028, 030, 033, 034, 037, 038)							
The changes proposed for ESCC 3009 Para 8.10 & Chart F4 shall also be implemented into ESCC3001 Para 8.13 & Chart F4 with the same details.							
For each 3009/xxx &	3001/xxx Deta	il Specification, replace v	with the following amer	ndments:			
A) Implement Insulati Details: : test temperature: Ta	on Resistance amb = +125 +/-	into the 'High and Low T 2degC	emperature Electrical	Measurements' table with the following			
: Test method and Conditions: per ESCC 3009 or 3001 and add new Note 1 as below							
: Limits: as per each applicable previous ESCC Detail Spec revision that included Insulation Resistance at high temperature (in Table 3)(but with units: Gohm or Gohm.nF as applicable)							
: Add new Note 1 (Other notes in the table to be renumbered & reallocated accordingly): 1. Guaranteed but not tested during Chart F3 Screening Tests; only tested in Temperature Characterisation during Chart F4 Qualification and Periodic Testing.							
B) In the 'Intermediat amend title of test 'Ca	B) In the 'Intermediate and End-Point Electrical Measurements' table: amend title of test 'Capacitance-Temperature Characteristics' to be 'Temperature Characterisation'						
Add Insulation Resist column.	ance, RI, as th	e first test in 'Temperatu	re Characterisation' wi	th existing Note # as below in the limits			

Note # (# number as applicable):

#. As specified in High and Low Temperatures Electrical Measurements.
Additional Modifications
The following additional editorial changes, agreed by PSWG81, shall apply:
For ESCC3001:
The paragraphs applicable to the amended Para 8.13 should be corrected to be:
in new (a): Para. 8.6.1.3
in new (b): Para. 8.6.1.5
The associated test box in Chart F4 should be renamed: Temperature Characterisation
For ESCC3009:
The associated test box in Chart F4 (& test title in Note 7) should be renamed: Temperature Characterisation
Approval signature:
Sache
Date signed:
2017-11-29