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## APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: Capacitors, Fixed, Reconstituted Mica, High Voltage,

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	366	į į	pased on type	HT86PS			Аррі. №.
		Executive Member:	CNES		Date: 07/04/201	14	251G
Components (includ	ing series and familie	s) submitted for Extensio	n of Qualification	Approval:			_ 1
ESCC COMPONENT NO.	VARIANTS	RANGE OF CO	RANGE OF COMPONENTS BASED ON			TEST C	
3006 022	01	See box 14		HT86PS	See box 14		es Covered by CSpecification 022
Component N EUROFARAD	tanufacturer	2 Location of M 1, rue des Temps N 77 600 CHANTELC		nt(s) 3	Date of original qualific Date: 01/08/	550	_ 4
					Certificate Ref No. 251		
ESCC Specification Maintenance of qua	s used for	Deviations to LVT t	testing and Detail	6 Specification	Qualification Extension reference and date:	n Report	_ 7
Generic: 3006  Detail(s): 3006/0	22 Issue: 3	No ☐ Yes  Deviation from curr  No ☑ Yes	15) rent Specification	details in Box s: / details)	Test Report 13/0493, Test Report 14/0249,		To
Cummon of propur	ment or equivalent to	est results during current	validity pariod in a	support of this or	onlication (those to ESC(	` listed first\	8
Project Name	Testing Lev		validity period in s	Date code		Quantity Deliver	ed
Main customers :	В	2 2 3 3 -	1245 1229, 1 1324, 1		6 708 parts		
TESAT SP2009 (*)	ì	İ					
THALES ALENIA SPACE ETCA							
					(*) TESAT specification (voltages). It represents more	nd is tailored to T	
PID changes since s	start of qualification	9	Current PID	Verified by:	CNES		10
None □ Minor* ⋈ Major* □	*Provide details in b	oox:	Ref No: Issue: Rev Date:	423.91.390 I 04/04/2014	Name of Excutive		07/04/2014
			1 to Date.	- 110 1120 17			11
Current Manufacturi	ng facilities surveyed	by:	CNES		on	18/09/2009	9
		(Nar	me of Executive F	Representative)		(Date)	
Satisfactory:	Yes ⊠	No □ E	xplain Fist L	igne Visit after tr	ansfer from Lagny site to	Chanteloup en	Brie
Report Reference:	DCT/AQ/CQ 21/09/2009	2009-21512,					

	APPLICAT	ION FOR EXT	ENSION	OF ESCC QUA	LIFICATI	ON APPROVAL	Page 2
<b>ESCC</b>	Component title:	Capacitors, I HT86PS	Fixed, R	econstituted Mic	a, High Vo	oltage, based on type	Appl. No.
	Executive Member:	CNES			Date:	07/04/2014	251G
	A.,						12
Failure Analysis, DPA, NCCS ava	ailable: Yes	□ No	$\boxtimes$	(Supply data)			
Ref. No's and purposes:							
The undersigned hereby certifies on behalf that the appropriate documentation has be (except as stated in box 15;) - that the report common as the responsible Executive Members 15.	en evaluated; - that fu orts and data are avail	II compliance to able at the ESC	o all ESC CC Exec	CC requirements utive and therefore	is eviden ore applie	s on behalf of	13
Date: 07/04/2014						ID DUCCEN	OT.
Date. 07/04/2014					(S	JP. BUSSEN	
Continuation of Boxes above:	725 C 125 C						14
Range of Components: items No 0	1 to 194 :						
33nF to 2.2μF 1.5kV ±10/20%							
15nF to 1.5μF 2.5kV ±10/20%							
15nF to 1.0μF 3.5kV ±10/20%							
6.8nF to 470nF 5kV ±10/20%							
2.2nF to 220nF 7.5kV ±10/20%							
1nF to 100nF 10kV ±10/20%							
3.3nF to 68nF 12.5kV ±10/20%							
1.5nF to 33nF 15kV ±10/20%							
680pF to 15nF 20kV ±10/20%							
Test Vehicles : (1) HT86PS 3006022102MJ 1nF ±20' (2) SP2009-1 (*) HT86PS 332QR 3.31 143) – Reports 12/1246 and 13/0493	nF -10% +30%, 12I						5 kV ESCC item
(*) TESAT specification SP2009 is than 80% of space orders identified Chart IV instead of Chart V with qui	in box 8 and data	vel B format are therefo	and is re use	tailored to TE ul for mainte	SAT ne nance a	eds (voltages). It ctivities. Note that S	represents more P2009 refers to

200	<b>ESCC</b>
Non com	pliance to ESCC_requirements
No:	Specification

### APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title:

Capacitors, Fixed, Reconstituted Mica, High Voltage, based on type HT86PS

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Appl. No.

The state of the s	Exe	cutive Member: CNES	Date:	07/04/2014	251G
Non compliance to ES	CC requirements:				15
No.:	Specification	Paragraph		Non complia	nce
dditional tasks require	ed to achieve full complian	ice for ESCC qualification or rationale for a	cceptability of		16
ncompliance:					
xecutive Manager Dis	position				17
pplication Approval:	Yes □ No				
ction / Remarks:					
ADDITIONA	L ESCC LI	NE JURVEYS WERE	DONE IN	2010 AN	0 2011:
		-OP-AV-01 (2010			
-00	S/LB/1107	.03 (2011)			
	71-07-1-1-				
				0	
			· ·		1
212	0			1. 10	1
ate:	2014				
			Sign	ature, ESA Representat	tive



### APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Capacitors, Fixed, Reconstituted Mica, High Voltage, based on type HT86PS Component Title:

Executive Member: CNES Date: 07/04/2014

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ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION

Tests conducted in compliance with:

ESCC 3006 generic specification; Chart V (for ESCC/QPL parts); Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

SP 2009-1 332QR 3,3nF -10% +30% 12kV dc 1245	Lot 338.12.05.0114A
ESCC3006.022-102MJ 1nF ±20% 12,5 kV dc 1325	Lot 338.13.03.0090

Detail Specification reference:

3006/022

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
/==	Robustness of Teminations	Ø	IEC 68-2-21	1245 1325	2 4	0 0	SP2009: Tests Ua + Ub + Uc
Environmental Mechanical Subgroup (Column 1)	Resistance to Soldering Heat	⊠	IEC 68-2-20	1325	4	0	NA to SP2009-1
Mech Sub (Colu	Climatic Sequence	×	ESCC 3006, Para. 9.14	1325	4	0	NA to SP2009-1
Ш	Seal Test		IEC 68-2-17				NA (ESCC 3006/022)
dn	Rapid Change of Temperature	⊠	IEC 68-2-14	1245 1325	8 4	0	
Environmental / chanical Subgro (Column 2)	Vibration	×	IEC 68-2-6	1245 1325	8 4	0	
onme ical S	Shock or Bump	×	ESCC 3006, Para. 9.13	1325	4	0	NA to SP2009-1
Environmental / Mechanical Subgroup (Column 2)	Climatic Sequence	Ø	ESCC 3006, Para. 9.14	1325	4	0	NA to SP2009-1
Σ	Seal Test		IEC 68-2-17				NA (E)(( 3006/072)
9.0	Operating Life	⋈	ESCC 3006, Para. 9.16	1245 1325	22 16	0	
Endurance	Electrical Measurements during Endurance Testing	Ø	ESCC 3006, Para. 9.6.5	12 <b>4</b> 5 1325	22 16	0	
o I nts)	High and Low Temperature Stability	×	ESCC 3006, Para. 9.15	1245 1325	2	0	N/A. Table 6 3006/02:
Electrical Subgroup (Electrical Measurements)	Electrical Measurements at Room Temperature	⋈	ESCC 3006, Para. 9.6.4	1245 1325	2 6	0	
Men	External Visual Inspection	×	ESCC 20500	1325	6	0	NA to SP2009-1
Subgroup nbly / sy Tests	Solderability		IEC 68-2-20	1245 1325	2 4	0	
Electrical Subgroup (Assembly / Capability Tests	Permanence of Marking	×	ESCC 24800	1325	4	0	NA to SP2009-1



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CNES Date: 07/04/2014 Executive Member:

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Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
lal	Moisture Resistance	×	MIL-STD-202 m. 106	1245	8	0	20 cycles
Additional							
Ad							



Box 21

Box 22

Additional Comments.

# APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

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**CNES** Date: 07/04/2014 **Executive Member:** 

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٨	IOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL
ENTRIES Form heading	shall indicate: - the title of the component as given in its detail specification or the name of the series, family; - the Executive Member; - the entering date; - the certificate number and its sequential suffix.
Box 1	shall provide details given in the table; in particular there shall be listed: - the variants or range of variants; - the range of components (the ESCC code is recommended to indicate the values or values range, the tolerance, the volt age, etc); the designation given in the detail specification as 'base on'; - under Test Vehicle enter either an ESCC code or the specific characteristic capable of identifying the component tested (e.g., voltage of coil for a relay); - under component similar enter a cross if relevant.
Box 2; 3 and 4	As per QPL entry; otherwise, an explanation of the changes must be supplied.
Box 5	Will show the ESCC Generic and Detail specifications, including issue number and revision letter, current at the time the tests reported were performed. If the specifications are different from those current on the date of the application, see Box 6.
Box 6	Will show the deviations from the Generic and Detail Specifications listed in Box 5, in particular deviations from testing. In case of deviations this must be listed in Box 15. In case the referenced specification in Box 5 have currently a different issue and/or revision indicate also whether the test data deviates or not from such current documents.
Box 7	Must reference the report(s) supplied in support of the application.
Box 8	Should provide the details of procurement to the full ESCC System, documentation of all of which should already have been delivered to the ESCC Executive under the terms of the relevant Generic Specification. An appropriate table has been drawn in this box.
Box 9	If the PID evolved after the Original Qualification or after the last Extension of Qualification, adequate details of such evolution shall be provided together with the reasons for the changes. Major changes shall be clearly marked.
Box 10	Identify the current PID issue status, date and actual date of verification. The date of verification of the current PID should be arranged as close as possible to the required date of extension.
Box 11	This box can be completed only after a physical visit to the plant to confirm that no unexplained changes occurred and that the practices, procedures, material, etc. used in manufacturing the components are as described in the PID. This survey shall be carried out in accordance with the requirements of ESCC Basic Specification No. 20200 and its findings shall be recorded.
Box 12	Provide details of, or reference to, any Destructive Physical Analysis (DPA) and Failure Analysis reports as well as any Nonconformance(s) (NCCS) occurred during the qualification validity period, stating if established corrective action have produced satisfactory results.
Box 13	Enter only the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive Coordinator.
Box 14	To be used when there is a need to expand any of the boxes from 1 through 12. Identify box affected and reference the Box 14 in the relevant Box. Box 14 can be broken into 14a, 14b, etc. if several boxes have to be expanded.
Box 15	Fill in Table as requested.
Box 16	Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.
Box 17	All Executive Manager recommendations on the application itself, special conditions or restrictions, modifications of the QPL or QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 19, signed by the representative for ESA, and dated.
Box 18	Fill in Table as requested.
Box 19	Confidential Details of PID changes including those of a confidential nature, shall be provided.
Box 20	State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 16 each nonconformance shall be sequentially numbered. If relevant state 'None'.
ı	

Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.