		APPLICATION	FOR EXTENSIO	N OF ESCC Q	UALIFI	CATION APPROVAL		Page 1	
E	SCC (		apacitors, Fixe ased on type H			Mica, High Voltage, 'S		Appl. No.	
	E		CNES			ate: 09/12/2024		251M	
Components (includ	ing series and families) s	submitted for Extension	of Qualification	Approval:					1
ESCC COMPONENT NO.	VARIANTS	RANGE OF COM	MPONENTS	BASED ON		TEST VEHICLE / S		COMPONENT SIMILAR	
3006 022	01	See box 14		HT86PS		300602201101MJ 300602201102MJ	ESC	es Covered by CSpecification 6/022	
3006 027	01	See box 14		HT97PS		300602701302KJ 300602701102KK 300602701102KK 300602701332KK 300602701332KK	ESC	tes Covered by CCSpecification 6/027	
				Ĺ					
Component M EXXELIA Technolog		Location of Ma 1, rue des Temps Mo 77 600 CHANTELOU		(s) <u>3</u>	Date Date:	of original qualification ap 01/08/1998	prova		4
					Certif 251	ficate Ref No.			
	5			6	201				7
ESCC Specifications Maintenance of qual		Deviations to LVT te used:	sting and Detail S	pecification		fication Extension Report ence and date:			
Generic: 3006	Issue: 4	No 🛛 Yes		etails in Box	Test	Reports			
Detail(s): 3006/02	2 Issue: 9	Deviation from curre	15) nt Specifications:		i.A	SPS 1nF ±20% 12.5kV MO			
3006/27		Deviation nom cane	ni opeeneatoris.		HT86	SPS 100pF ±20% 12.5kV	MG31:	3221100064 23026	35
		No 🛛 Yes	□ (Supply o	letails)	HT97 HT97 2308	'PS 1nF ±10% 15KV MG3 'PS 1nF ±10% 15KV MG3 'PS 3.3nF ± 10% 15kV M 44i.A 'PS 3.3nF ± 10% 15kV M	313230 G3132	0400102 230872 i.A 30400126	A
					i.A	'PS 3nF ±10% 12.5kV MG			
					1.71			8	8
					plicatio	n (those to ESCC listed fi Quantity		rod	
Project Name See Dashboard - MC ESCC 3006 - certific		LAT		Date code		6140	Delive	ared	
251 M - sales.xls									
	test of qualification	9	Current PID V	lorified by:		G. Quadri, CNE	e	1	0
PID changes since s None	nan or quaincation	_ 9_		childa by.	N	ame of Excutive Represe			-
Minor*			Ref No: 4	23.91.390					
Major* ⊠	*Provide details in box:		Issue: L			Date:		13/07/2023	
	19		Rev Date: 0	1/12/2023					
Current Manufacturir	ng facilities surveyed by:		ESA & CNE	S	on	12	/09/20		1
		(Name	e of Executive Re	presentative)		-	(Date)		
Satisfactory:	Yes 🛛	No 🗆							
Report Reference:	2023.0016237 Report EXXELI En-Brie								

	888	APF	LICATION FOR EXT	ENSION OF ESCC	QUALIFICATION APPROVAL	Page 2
	SCC	Component	title: Capacitors, HT86PS and		Mica, High Voltage, based on type	Appl. No.
		Executive M	ember: CNES		Date: 09/12/2024	251M
						1:
ilure Analysis	, DPA, NCCS a	vailable:	Yes 🛛 No	(Supply date	ita)	
f. No's and purpo	ses: 1 CETE 2	204 : delay in the	maintenance of qual	fication (bottleneck o	f the capacity vs load) CLOSED	
e undersigned he	reby certifies on beha	alf of the ESCC I	Executive - that the al	pove information is co	rrect: -	1
t the appropriate cept as stated in	documentation has b box 15;) - that the re	peen evaluated; - ports and data a	that full compliance to re available at the ES	o all ESCC requirement CC Executive and the		Signature numérique de Fontaine Lya Date :
ite:						2024.12.09 15:12:16 +01'00'
					(Signature of the Execu	utive Coordinator)
ntinuation of Box	es above:					1
ange of Comp	onents:					C.
• HT86P	S :					
		( -)	1			
	citance Range		Tol. (±%)	UR(kV)		
22	to	2200	10	1,5		
15	to	1500	10	2,5		
10	to	1000	10	<mark>3,</mark> 5		
4,7	to	470	10	5		
2,2	to	220	10	7,5		
0,1	to	100	10	10		
0,1	to	68	10	12,5		
0,1	to	33	10	15		
0,1	to	20	10	15		
• HT97P:	3:					
Capa	citance Range	(nF)	Tol. (±%)	UR(kV)		
22	to	2200	10	1,5		
15	to	1500	10	2,5		
6,8	to	1500	10	3,5		
3,3	to	680	10	5		
2,2	to	330	10	7,5		
	to	150	10	10		
1	to	100	10	12,5		
1			10	15		
	to	68	10			

		AP	PLICATION FOR EXTENSION OF ESCC QUA	ALIFICATION APPROVAL	Page 3
(D) (d)	ESCC	Componen	t title: Capacitors, Fixed, Reconstituted Mic HT86PS and HT97PS	ca, High Voltage, based on type	Appl. No.
	12000	Executive I		Date: 09/12/2024	251M
Non com	pliance to ESCC requirements:				15
No.:	Specification		Paragraph	Non compliance	
Additional	tasks required to achieve full cor	npliance for l	ESCC qualification or rationale for acceptability	of	16
noncompl	iance:				
Executive	Manager Disposition				
					17
Application Action / Re		lo 🗆			
7100017710	onario.				
				(	
				341	
Date:				V.per	<u> </u>
				B. Schade: Head of the Quality E	Department

		ICATION FOR EXTE	NSION OF ESCC QUALIFICATIO	ON APPROVAL	Page 4
<b>ESCC</b>	Component Ti	Component Title: Capacitors, Fixed, Reconstituted Mica, High Voltage, base HT86PS and HT97PS			
	Executive Mer	mber: CNES	I	Date: 09/12/2024	251M
NNEX 1: LIST OF TESTS DONE	TO SUPPORT EXTENS	SION OF QUALIFICA	TION		
ests conducted in compliance with	ר:				
	pecification; Chart V (fo				
Or PID-TFD ests vehicle identification/descript	(for ESCC)	1		1	
		DC2311	HT97PS 1nF ±10% 15KV	300602701102KK	DC2340
ests vehicle identification/descript	ion:	1	HT97PS 1nF ±10% 15KV HT97PS 3.3nF ± 10% 15kV	300602701102KK 300602701332KK	DC2340 DC2341
ests vehicle identification/descript HT86PS 100pF ±20% 12.5kV	ion: 300602201101MJ	DC2311	HT97PS 3.3nF ± 10% 15kV	300602701332KK	

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
11	Robustness of Teminations		IEC 68-2-21	2311 2307	4 4	0	
Environmental Mechanical Subgroup (Column 1)	Resistance to Soldering Heat		IEC 68-2-20	2311 2307	4 4	0	
	Climatic Sequence		ESCC 3006, Para. 9.14	2311 2307	4 4	0	
	Seal Test		IEC 68-2-17				NA
8	Rapid Change of Temperature		IEC 68-2-14	2311 2307	4 4	0	
subgro 2)	Vibration		IEC 68-2-6	2311 2307	4 4	0	
Environmental / chanical Subgro (Column 2)	Shock or Bump		ESCC 3006, Para. 9.13	2311 2307	4 4	0	
Environmental / Mechanical Subgroup (Column 2)	Climatic Sequence		ESCC 3006, Para. 9.14	2311 2307	4 4	0	
-	Seal Test		IEC 68-2-17				NA
Subgroup	Operating Life		ESCC 3006, Para. 9.16	2328 2340 2341 2346	16 16 16 16	0	1 000H
Subg	Electrical Measurements during Endurance Testing		ESCC 3006, Para. 9.6.5	2328 2340 2341 2346	16 16 16 16	0	
Electrical Subgroup (Electrical Measurements)	High and Low Temperature Stability		ESCC 3006, Para. 9.15	2311 2307 2315 2328 2340 2341 2346	6 6 6 6 6 6 6	0	
	Electrical Measurements at Room Temperature		ESCC 3006, Para. 9.6.4	2311 2307 2315 2328 2340 2341 2346	6 6 6 6 6 6	0	
(Ele	External Visual Inspection		ESCC 20500	2311 2307 2315 2328 2340 2341 2346	6 6 6 6 6 6	0	
Electrical Subgroup (Assembly / Capability Tests	Solderability		IEC 68-2-20	2311 2307 2315 2340 2341 2346	4 4 4 4 4 4	0	
Electrical (Asse Capabil	Permanence of Marking		ESCC 24800	2311 2307 2315 2340 2341 2346	4 4 4 4 4	0	
Additi onal Tests				ľ			
Te							

		APPLICAT	ION FOR EXTENSION OF ES	CC QUALIFICATION APPROVAL	Page 6
	ESCC	Component Title:		uted Mica, High Voltage, based on type	Appl. No.
	LOUG	Executive Member	HT86PS and HT97PS CNES	Date: 09/12/2024	251M
		Executive Member	UNES	Date. 05/12/2024	25110
ANNEX 2 :	CONFIDENTIAL DATA				
PID change	es details				19
None					
Minor Major	□	ic specification ESCC	24600 - Minimum quality Manag	gement system requirements/redesign	
Major	§ 4.3.1: addition ( § 4.3.2: addition )	of HT97PS ESCC Basic Specificat	tion 21700 - General		
	Requirements for § 7.3 Chart F2 / r	marking ESCC comp rework: creation	onents / marking		
	§ 12 Specificities	by product family: cre ilm type HT97 PS: cre	ation ation		
Noncomplia	ance to ESCC requirements:				20
No.:	Specification		Paragraph	Non compliance	ce
				-1-1-1114	
Additional noncomplia		ompliance for ESCC q	ualification or rationale for acce	ptability of	21
(104 FC-1)					
Additional	Comments				22

	APPLICATION FOR E	XTENSION OF ESCC QUALIFICAT	ION APPROVAL	Page 6
E		rs, Fixed, Reconstituted Mica, High V and HT97PS	/oltage, based on type	Appl. No.
1 4 6 M	Executive Member: CNES	Date:	09/12/2024	251M
NO	ES ON THE COMPLETION OF THE APPLICATION	FORM FOR ESCC QUALIFICATION	N EXTENSION APPROVAL	
ENTRIES				
Form heading	shall indicate: - the title of the component as given i - the entering date; - the certificate number and its	n its detail specification or the name of sequential suffix.	of the series, family; - the Exe	ecutive Member;
Box 1	shall provide details given in the table; in particular (the ESCC code is recommended to indicate the v the detail specification as 'base on'; - under Tes identifying the component tested (e.g., voltage of c	values or values range, the tolerance at Vehicle enter either an ESCC coo	e, the voltage, etc); the desi de or the specific character	gnation given in ristic capable of
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 specifica reported were performed. If the specifications are of			
Box 6	Will show the deviations from the Generic and Det deviations this must be listed in Box 15. In case the indicate also whether the test data deviates or not	referenced specification in Box 5 ha		
Box 7	Must reference the report(s) supplied in support of	the application.		
Box 8	Should provide the details of procurement to the full to the ESCC Executive under the terms of the relevance of the re			
Box 9	If the PID evolved after the Original Qualification or be provided together with the reasons for the chan-			n evolution shall
Box 10	Identify the current PID issue status, date and ac arranged as close as possible to the required date		f verification of the current	PID should be
Box 11	This box can be completed only after a physical v practices, procedures, material, etc. used in manufa out in accordance with the requirements of ESCC 8	acturing the components are as descr	ibed in the PID. This survey	
Box 12	Provide details of, or reference to, any Destruct Nonconformance(s) (NCCS) occurred during the q satisfactory results.			
Box 13	Enter only the name of the Executive Member (i. Coordinator.	e., CNES, DLR, ESTEC, etc.) and t	he signature of the respon	sible Executive
Box 14	To be used when there is a need to expand any of the relevant Box. Box 14 can be broken into 14a, 1			e the Box 14 in
Box 15	Fill in Table as requested.			
Box 16	Any additional action deemed necessary by the Ex by the ESCC Executive should be listed herein or the			to be accepted
3ox 17	All Executive Manager recommendations on the ap entry, letters to the manufacturer, etc. shall be enter			
Box 18	Fill in Table as requested.			
3ox 19	Confidential Details of PID changes including those	of a confidential nature, shall be pro	vided.	
3ox 20	State noncompliance with reference to specification shall be sequentially numbered. If relevant state 'No		eference in Box 16 each no	onconformance
3ox 21	Any additional action deemed necessary by the Ex by the ESCC Executive should be listed herein or the			to be accepted
		1977.M. 35		