

		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL				Page 1 Appl. No. 110S		
Component Title: Capacitors, Fixed, Chip, Ceramic Dielectric, type II, based on types 0805, 1206, 1210, 1812, 2220		Executive Member: CNES		Date: 11/06/2025				
Components (including series and families) submitted for Extension of Qualification Approval:							1	
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR			
3009 008	03, 06, 07	See box 14	0805 - -	3009008060105KE 3009008060104KC 3009008060145KA				
3009 009 -	03, 06, 07		1210 - - -	3009009060473KE 3009009060683KG 3009009060474KA A613ZI0472KNC				
3009 010 - 3009 011 -	03, 06, 07		1812 - 2220 -	3009010060473KE A614ZI0123KNC 3009011060105KE 3009011060225KA				
3009 023	03, 06, 07		1206	3009023060102KG				
Component Manufacturer Kyocera-AVX		2	Location of Manufacturing Plant(s) Avenue du Colonel Prat 21850 SAINT APOLLINAIRE - FRANCE		3	Date of original qualification approval: Date: 01/02/1983 Certificate Ref No. 110		
		5	Deviations to LVT testing and Detail Specification used: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (supply details in Box 15) Deviation from current Specifications: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)		6	Qualification Extension Report reference and date: LVT1-LVT2A-LVT2B-244500502-A615ZE0105K2J-25006 15/05/2025 LVT1-LVT2A-LVT2B-244800101-A615ZC0225K2J-25004 15/05/2025 LVT1-LVT2A-LVT2B-LVT3-A613ZI0472KNC Resultats type II 01/03/2024		
ESCC Specifications used for Maintenance of qualification testing: Generic 3009 Iss 5 Detail(s) 3009/008 Iss 9 3009/009 7 3009/010 6 3009/011 6 3009/023 7								
Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)								8
Project Name	Testing Level	LVT	Date code	Quantity Delivered				
ALTER AIRBUS THALES TTI ARROW ...				2023 (>01/04/2023) : 108377 2024 : 54917 2025 (until 15/01/2025) : 2191				
PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/>		9	Current PID Verified by: CNES Name of Excutive Representative Ref No: 1G2 PID 100 23WQ Issue: 23 Rev Date: 05/06/2025		Date: 17/09/1981			10
*Provide details in box: 19								
Current Manufacturing facilities surveyed by: CNES on 12/12/2018 (Name of Executive Representative) (Date)								11
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain								
Report Reference: CNES/DSO/AQ/CQ-2018.0022759, 18/12/2018								

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Failure Analysis, DPA, NCCS available: Yes ☐ No ☒ (Supply data) See in appendix

Ref. No's and purposes:

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The undersigned hereby certifies on behalf of the ESCC Executive - that the above information is correct; - that the appropriate documentation has been evaluated; - that full compliance to all ESCC requirements is evidence (except as stated in box 15;) - that the reports and data are available at the ESCC Executive and therefore applies on behalf of CNES as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date: 11/06/2025

Fontaine Lya
Signature numérique de Fontaine Lya
Date: 2025.06.11 14:14:31 +02'00'

L. FONTAINE

(Signature of the Executive Coordinator)

Continuation of Boxes above:

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Style	Detail Spec.	Model	Variants	Capacitance Range (pF)	Rated Volt. (V)	Tolerance (±%)
0805	3009/008	A_12G	03, 06	820 to 47 000 820 to 27 000 820 to 10 000	25 50 100	5, 10, 20
		A612Z	07, 10	2 700 to 150 000 2 700 to 100 000 2 700 to 47 000 330 to 15 000	25 50 100 200	
1210	3009/009	A_13G	03, 06	3 900 to 220 000 3 900 to 150 000 3 900 to 47 000	25 50 100	
		A613Z	07, 10	3 900 to 470 000 3 900 to 330 000 3 900 to 220 000 680 to 68 000	25 50 100 200	
1812	3009/010	A_14G	03, 06	6 800 to 470 000 6 800 to 270 000 6 800 to 82 000	25 50 100	
		A614Z	07, 10	22 000 to 1 000 000 22 000 to 680 000 22 000 to 470 000 3 300 to 150 000	25 50 100 200	
2220	3009/011	A_15G	03, 06	18 000 to 1 000 000 18 000 to 680 000 18 000 to 180 000	25 50 100	
		A615Z	07, 10	100 000 to 2 200 000 100 000 to 1 500 000 100 000 to 1 000 000 6 800 to 330 000	25 50 100 200	
1206	3009/023	A_20G	03, 06	2 200 to 100 000 2 200 to 68 000 2 200 to 22 000	25 50 100	
		A620Z	07, 10	3 300 to 220 000 3 300 to 150 000 3 300 to 100 000 470 to 47 000	25 50 100 200	

Note that in order to facilitate deliveries, minimum values were harmonized on the basis that a capacitance value may be delivered with a qualified process using either a higher voltage product or a compatible temperature characteristic (i.e. a variant 06 design against a variant 07 order) provided that the maximum chip thickness is compliant.



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Non compliance to ESCC requirements:

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No.:	Specification	Paragraph	Non compliance

Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of non compliance:

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Executive Manager Disposition

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Application Yes ☒ No ☐

Approval:

Action / Remarks:

Date: 26/06/2025

A. Zadeh: Head of the Avionics and EEE Division

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

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Tests conducted in compliance with:

- ESCC 3009 generic specification; Chart F4 (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

3009008060105KE DC 2408 3009008060104KC DC 2411 3009008060145KA DC 2350	3009010060473KE DC 2346 A614ZI0123KNC DC 2432 3009011060105KE DC 2451 3009011060225KA DC 2501
3009009060473KE DC 2328 3009009060683KG DC 2430 3009009060474KA DC 2431 A613ZI0472KNC DC 2420	3009023060102KG DC 2435

Detail Specification reference: 3009/008/009/010/011/023

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental / Mechanical Subgroup	Mounting	<input checked="" type="checkbox"/>	IEC 60384-1	2408	25	0	
				2411	25		
				2350	25		
				2435	25		
				2328	25		
				2430	25		
				2431	25		
				2346	25		
				2432	25		
	Rapid Change of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	2451	25	0	
				2501	25		
				2420	20		
				2408	25		
				2411	25		
				2350	25		
				2435	25		
				2328	25		
				2430	25		
	Steady State Humidity	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.2	2431	25	0	1 000 hours
				2346	25		
				2432	25		
				2451	25		
				2501	25		
				2420	20		
				2408	25		
				2411	25		
				2350	25		

Endurance Subgroup	Visual Inspection	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.5	2408 2411 2350 2435 2328 2430 2431 2346 2432 2451 2501 2420	25 25 25 25 25 25 25 25 25 25 25 20	0	
	Mounting	<input checked="" type="checkbox"/>	IEC 60384-1	2408 2411 2350 2435 2328 2430 2431 2346 2432 2451 2501 2420	25 25 25 25 25 25 25 25 25 25 25 10	0	
	Operating Life	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.9	2408 2411 2350 2435 2328 2430 2431 2346 2432 2451 2501 2420	25 25 25 25 25 25 25 25 25 25 25 10	0	2000h (except for customer LAT DC2420 : 1000h)
	Electrical Measurements during Endurance Testing	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.9	2408 2411 2350 2435 2328 2430 2431 2346 2432 2451 2501 2420	25 25 25 25 25 25 25 25 25 25 25 10	0	
	Mounting	<input checked="" type="checkbox"/>	IEC 60384-1	2408 2411 2350 2435 2328 2430 2431 2346 2432 2451 2501 2420	6 6 6 6 6 6 6 6 6 6 6 3	0	Before Robustness of Terminations
	Insulation resistance at +125°C	<input checked="" type="checkbox"/>	ESCC 3009, Para 8.10	2408 2411 2350 2435 2328 2430 2431 2346 2432 2451 2501 2420	6 6 6 6 6 6 6 6 6 6 6 3	0	
	Temperature Coefficient (Type I)	<input type="checkbox"/>	ESCC 3009, Para. 8.10	-	-	-	Not applicable
Electrical Subgroup (Elect. Meas.)	Temperature	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.10	2408	6	0	

	Characteristic (Type II)			2411 2350 2435 2328 2430 2431 2346 2432 2451 2501 2420	6 6 6 6 6 6 6 6 6 6 3		
	Robustness of Terminations	<input checked="" type="checkbox"/>	ESCC 3009, Para.8.7	2408 2411 2350 2435 2328 2430 2431 2346 2432 2451 2501 2420	6 6 6 6 6 6 6 6 6 6 6 3	0	
Electrical Subgroup (Ass. / Capab. Tests)	Solderability	<input checked="" type="checkbox"/>	IEC 60068-2-58 Test Td	2420	3	0	
	Permanence of Marking	<input type="checkbox"/>	ESCC 24800	-	-	-	Not applicable
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					



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NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

ENTRIES	shall indicate: - the title of the component as given in its detail specification or the name of the series, family; - the
Form heading	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 voltage, 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 & 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.
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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.
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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	<p>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.</p>
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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.
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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.
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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'.

Box 21 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 22 Additional Comments.