

Components (including series and families) submitted for Extension of Qualification Approval:

ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3009/008 3009/039 3009/009 3009/039	06 & 07 02 & 14 06 & 07 04 & 16	16V to 100V (See box 14)	CNC2 02S CNC2 04S CNC4 02S CNC4 04S	300900807154KX 300903915473KX 300903916224KE	See box 14 for qualified ranges.
3009/010 3009/039 3009/011 - 3009/039	06 & 07 05 & 17 06 & 07 - 06 & 18	16V to 100V (See box 14)	CNC6 02S CNC6 04S CNC7 02S - CNC7 04S	300901106105KA 300901106564KC 300903918225KX	
3009/023 3009/039 3009/038 3009/039	06 & 07 03 & 15 06 & 07 01 & 13	16V to 100V (See box 14)	CNC12 02S CNC12 04S CNC14 02S CNC14 04S	300903903223KE 300903807103KC 300903901102KC	
3009/039 3009/043	25 & 26 06	10V to 50V (See box 14)	CNC19 04S CNC19 02S	300904306103KY	

Component Manufacturer	2	Location of Manufacturing Plant(s)	3		4
EXXELIA Technologies		EXXELIA 1, rue des Temps Modernes 77600 CHANTELOUP EN BRIE FRANCE		Date of original qualification approval: Date: 24/10/2012	
				Certificate Ref No. 324	

				5			6			7
ESCC Specifications used for Maintenance of qualification testing:					Deviations to LVT testing and Detail Specification used:			Qualification Extension Report reference and date:		
Generic:	3009	Issue:	4/5	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	(supply details in Box 15)		CNC2-02 S 150nF ±10% 16V MG313240300110 240388 i.A CNC2-04 S 47nF ±10% 100V MG313221100909 230803 i.A CNC4-04 S 220nF ±10% 100V MG313230200351 230941 i.A CNC7-02 S 1µF ±10% 25V MG313231000243 230598 i.A CNC7-02 S 560nF ±10% 50V MG313220800165 230247 i.A CNC7-04 S 2.2µF ±10% 16V MG313230400388 240042 i.A CNC12-04 S 22nF ±10% 100V MG313230200946 230998 i.A CNC14-02 S 10nF ±10% 50V MG3132401000985 230834 i.A CNC14-04 S 1nF ±10% 50V MG313240100090 230544 i.A CNC19-02 S 10nF ±10% 10V MG313211100410 230712 i.A
Detail(s):	3009/008 3009/038 3009/039 3009/009 3009/010 3009/011 3009/023 3009/043	Issue:	7 6 5 6 6 6/7 8 5	Deviation from current Specifications:						
				No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	(Supply details)		

Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)

Project Name	Testing Level	LAT	Date code	Quantity Delivered
3D PLUS ALTER TECHNOLOGY TUV ARC POWER GMBH ADVIONICS NV BHARAT ELECTRONICS LTD CSN ELEKTRONIK GMBH EXXELIA USA POWELL ELECTRONICS REMRED LTD RGM S.R.L. SAFRAN TIMING TECHNOLOGIES SA TESAT-SPACECOM GMBH UND CO.KG THALES ALenia SPACE	-	-	Lots delivered since last MoQ	43 999 pièces

PID changes since start of qualification		9	Current PID	Verified by:	CNES	10
None <input checked="" type="checkbox"/>					Name of Executive Representative	
Minor* <input type="checkbox"/>			Ref No:	PID 624.03.390		
Major* <input type="checkbox"/>	*Provide details in box:		Issue:	Rev L	Date:	13/12/2023
	19		Rev Date:	01/06/2023		

Current Manufacturing facilities surveyed by: ESA & CNES on 13/10/2023

(Name of Executive Representative)

(Date)

Satisfactory: Yes ☒ No ☐ Explain

Report Reference: 2023.0016237 ESCC Audit Report
EXXELIA Chanteloup-En-Brie



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Capacitors, Ceramic, Chip, Type II, sizes 0402 to 2220

Executive Member: CNES

Date: 31/07/2025

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Failure Analysis, DPA, NCCS available: Yes ☐ No ☒ (Supply data)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: 31/07/2025

Signature
numérique de
Fontaine Lya
Date : 2025.07.31
14:35:01 +02'00'

Lya Fontaine

(Signature of the Executive Coordinator)

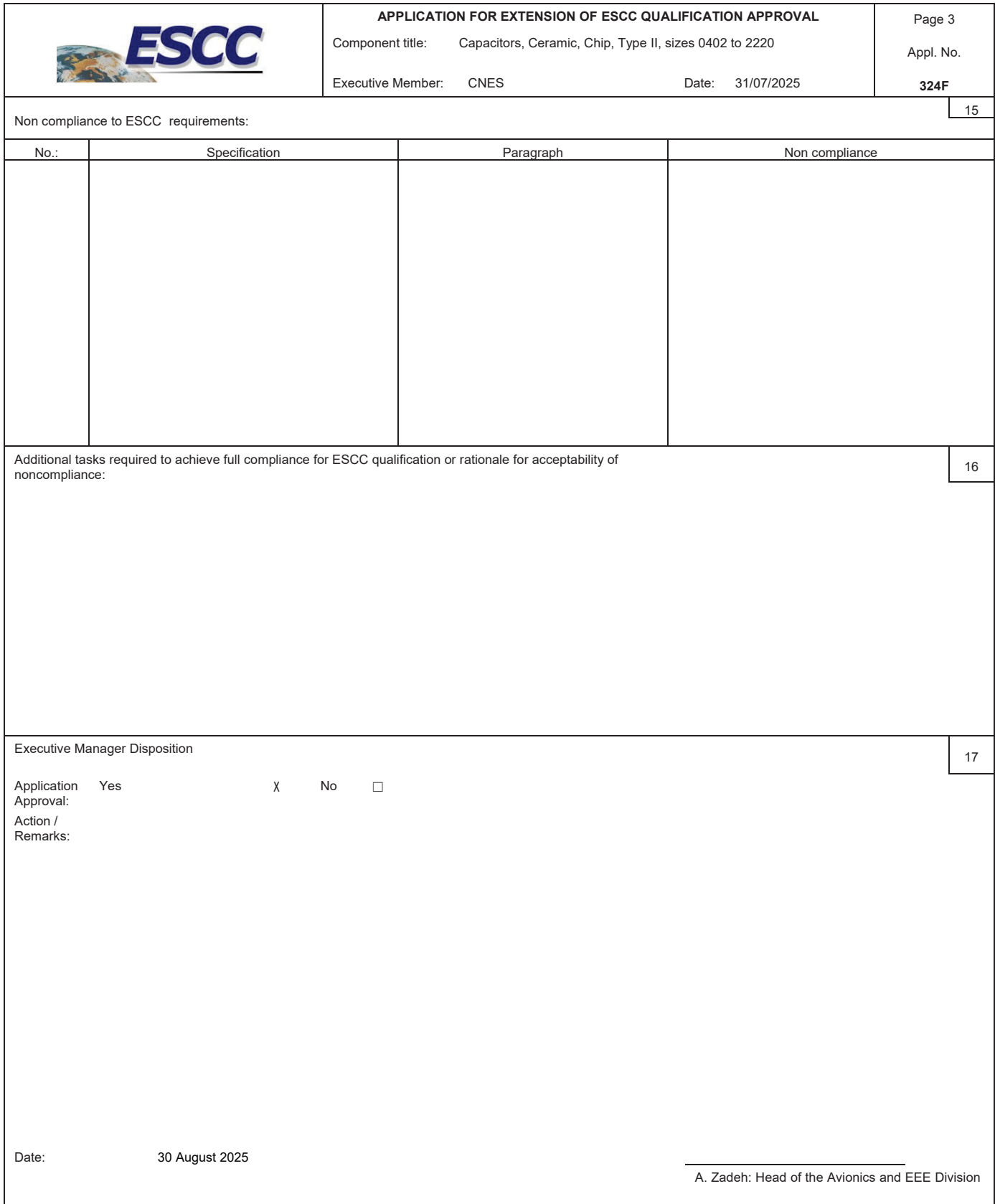
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Continuation of Boxes above:

Box 1, Range of Components :

Style	Detail Spec.	Model	Variants	Capacitance Range (pF)	Rated Volt. (V)	Tolerance (±%)
0805	3009/008	CNC2 02S	06	1 000 to 150 000	16	5, 10, 20
				1 000 to 100 000	25	
				1 000 to 47 000	50	
				1 000 to 10 000	100	
	3009/039	CNC2 04S	02	1 000 to 390 000	16	
				1 000 to 150 000	25	
				1 000 to 100 000	50	
				1 000 to 47 000	100	
1210	3009/009	CNC4 02S	06	1 000 to 10 000	16	5, 10, 20
				1 000 to 150 000	25	
				1 000 to 100 000	50	
				1 000 to 47 000	100	
	3009/039	CNC4 04S	04	1 000 to 390 000	16	
				1 000 to 150 000	25	
				1 000 to 100 000	50	
				1 000 to 47 000	100	
1812	3009/010	CNC6 02S	06	1 000 to 10 000	16	5, 10, 20
				1 000 to 150 000	25	
				1 000 to 100 000	50	
				1 000 to 47 000	100	
	3009/039	CNC6 04S	05	1 000 to 390 000	16	
				1 000 to 150 000	25	
				1 000 to 100 000	50	
				1 000 to 47 000	100	
2220	3009/011	CNC7 02S	06	1 000 to 10 000	16	5, 10, 20
				1 000 to 150 000	25	
				1 000 to 100 000	50	
				1 000 to 47 000	100	
	3009/039	CNC7 04S	06	1 000 to 390 000	16	
				1 000 to 150 000	25	
				1 000 to 100 000	50	
				1 000 to 47 000	100	

			18	22 000 to 3 900 000 22 000 to 2 200 000 22 000 to 1 800 000 22 000 to 1 000 000	16 25 50 100	
1206	3009/023	CNC12 02S	06	1 800 to 270 000 1 800 to 180 000 1 800 to 82 000 1 800 to 27 000	16 25 50 100	5, 10, 20
			07	1 800 to 1 000 000 1 800 to 270 000 1 800 to 100 000 1 800 to 120 000	16 25 50 100	
			03	1 800 to 270 000 1 800 to 180 000 1 800 to 82 000 1 800 to 27 000	16 25 50 100	
			15	1 800 to 1 000 000 1 800 to 270 000 1 800 to 100 000 1 800 to 120 000	16 25 50 100	
	3009/039	CNC12 04S				
0603	3009/038	CNC14 02S	06	270 to 33 000 270 to 22 000 270 to 10 000 270 to 2 700	16 25 50 100	5, 10, 20
			07	270 to 100 000 270 to 33 000 270 to 22 000 270 to 12 000	16 25 50 100	
			01	270 to 33 000 270 to 22 000 270 to 10 000 270 to 2 700	16 25 50 100	
			13	270 to 100 000 270 to 33 000 270 to 22 000 270 to 12 000	16 25 50 100	
	3009/039	CNC14 04S				
0402	3009/043	CNC19 02S	06	68 to 12 000 68 to 8 200 68 to 5 600 68 to 3 300	10 16 25 50	5, 10, 20
	3009/039	CNC19 04S	25	68 to 12 000 68 to 8 200 68 to 5 600 68 to 3 300	10 16 25 50	





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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 V (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

CNC2 02S 150nF 10% 16V	300900807154KX	DC2426	CNC7 04 S 2.2µF 10% 16V	300903918225KX	DC2349
CNC2 04 S 47nF 10% 100V	300903915473KX	DC2406	CNC12 04 S 22nF 10% 100V	300903903223KE	DC2409
CNC4 04 S 220nF 10% 100V	300903916224KE	DC2408	CNC14 02 S 10nF 10% 50V	300903807103KC	DC2411
CNC7 02 S 1µF 10% 25V	300901106105KA	DC2346	CNC14 04 S 1nF 10% 50V	300903901102KC	DC2338
CNC7 02 S 560nF 10% 50V	300901106564KC	DC2318	CNC19 02 S 10nF 10% 10V	300904306103KY	DC2403

Detail Specification reference: 3009/008/038/039/009/010/011/023/043

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, 4.33	2426	20	0	
				2406	20		
				2408	20		
				2346	20		
				2318	20		
				2349	20		
				2409	20		
				2411	20		
				2338	20		
	Rapid Change of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	2426	20	0	
				2406	20		
				2408	20		
				2346	20		
				2318	20		
				2349	20		
				2409	20		
				2411	20		
				2338	20		
	Steady State Humidity	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.2	2426	20	0	
				2406	20		
				2408	20		
				2346	20		
				2318	20		
				2349	20		
				2409	20		
				2411	20		
				2338	20		
	Visual Inspection	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.5	2426	20	0	
				2406	20		
				2408	20		
				2346	20		
				2318	20		
				2349	20		
				2409	20		
				2411	20		
				2338	20		
Electrical Subgroup	Mounting	<input checked="" type="checkbox"/>	IEC 60384-1, 4.33	2426	20	0	
				2406	10		
				2408	10		
				2346	20		
				2318	10		
				2349	20		
				2409	10		
				2411	10		
				2338	10		
				2403	20		

Ass. / Capab. Subgroup	Operating Life	☒	ESCC 3009, Para. 8.9	2426 2406 2408 2346 2318 2349 2409 2411 2338 2403	20 10 10 20 10 20 10 10 10 20	0	
	Mounting	☒	IEC 60384-1, 4.33	2426 2406 2408 2346 2318 2349 2409 2411 2338	6 3 3 6 3 6 3 3 3	0	
	Capacitance-Temperature Characteristics	☒	ESCC 3009, Para. 8.10	2426 2406 2408 2346 2318 2349 2409 2411 2338	6 3 3 6 3 6 3 3 3	0	Normally done prior to mounting
	Robustness of Terminations	☒	ESCC 3009, Para. 8.7	2426 2406 2408 2346 2318 2349 2409 2411 2338	6 3 3 6 3 6 3 3 3	0	
	Solderability	☒	IEC 60068-2-58	2426 2406 2408 2346 2318 2349 2409 2411 2338	6 3 3 6 3 6 3 3 3	0	
	Permanence of Marking	☒	ESCC 24800	2426 2406 2408 2346 2318 2349 2409 2411 2338	6 3 3 6 3 6 3 3 3	0	

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324F**NOTES 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 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 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'.

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.