

	APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL Component Title: Capacitors, Ceramic, Chip, Type I, sizes 0402 to 2220 Executive Member: CNES Date: 31/07/2025	Page 1 Appl. No. 323F			
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
3009/003 3009/004 3009/005	06 06 06	All values 16V to 100V	CEC2 02S CEC4 02S CEC6 02S	3009003066800JC 3009004061002KC	See box 14 for qualified ranges.
3009/006 3009/022 3009/037 -	06 06 06 -	All values 16V to 100V	CEC7 02S CEC12 02S CEC14 02S -	3009006065622FA 3009037061000KC 3009037065600JC	
3009/040	01 to 06	All values 16V to 100V	CEC2 04S to CEC14 04S	300904001470JC	
3009/042 3009/040	06 13	All values 10V to 50V	CEC19 02S CEC19 04S		
Component Manufacturer EXXELIA SAS		Location of Manufacturing Plant(s) EXXELIA 1, rue des Temps Modernes 77600 CHANTELOUP EN BRIE FRANCE		Date of original qualification approval: Date: 24/10/2012 Certificate Ref No. 323	
ESCC Specifications used for Maintenance of qualification testing: Generic: 3009 Issue: 5 Detail(s): 3009/003 Issue: 9 3009/004 8 3009/005 8 3009/006 7 3009/022 7 3009/037 5 3009/040 5 3009/042 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)		Qualification Extension Report reference and date: CEC2-02 S 680pF ±5% 50V MG313220300897 230332 i.A CEC4-02 S 10nF ±10% 50V MG313231100521 230875 i.A CEC7 02 S 56.2nF ±1% 25V MG313220700413 230240 i.A CEC14-02 S 100pF ±10% 50V MG313240100080 230729 i.A CEC14-02 S 560pF ±5% 50V MG313230200321 230723 i.A CEC14-04 S 47pF ±5% 50V MG313230600803 230543 i.A	
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	LAT	Date code	Quantity Delivered	
ALTER TECHNOLOGY TUV APCON AEROSPACE & DEFENCE DA DESIGN OY SPUR ELECTRON LTD SWEDISH INSTITUTE OF SPACE PHYSICS SYRLINKS TERMA A/S TESAT-SPACECOM GMBH UND CO.KG THALES ALENIA SPACE XI'AN WELLKING ELECTRONIC HK LTD	-	-		Total 8882 parts	
PID changes since start of qualification None <input checked="" type="checkbox"/> Minor* <input type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box:			Current PID Verified by: CNES Name of Executive Representative Ref No: PID 623.03.390 Issue: Rev L Date: 02/06/2021 Rev Date: 01/07/2023		
Current Manufacturing facilities surveyed by: ESA & CNES on 13/10/2023 (Name of Executive Representative) (Date) Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain Report Reference: 2023.0016237 ESCC Audit Report EXXELIA Chanteloup-En-Brie					



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

Ref. No's and purposes:

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
11:36:22 +02'00'

Lya Fontaine

(Signature of the Executive Coordinator)

Continuation of Boxes above:

Box 1, Range of Components :

Style	Detail Spec.	Model	Variants	Capacitance Range (pF)	Rated Volt. (V)	Tolerance (pF, ±%)
0805	3009/003 3009/040	CEC2 02S CEC2 04S	06 02	1 to 2 700 1 to 2 200 1 to 1 800 1 to 1 200	16 25 50 100	< 10pF 0,25 – 0,5 – 1 (pF) ≥ 10pF 1, 2, 5, 10 (%)
1210	3009/004 3009/040	CEC4 02S CEC4 04S	06 04	10 to 15 000 10 to 12 000 10 to 12 000 10 to 6 800	16 25 50 100	
1812	3009/005 3009/040	CEC6 02S CEC6 04S	06 05	100 to 33 000 100 to 27 000 100 to 22 000 100 to 12 000	16 25 50 100	
2220	3009/006 3009/040	CEC7 02S CEC7 04S	06 06	470 to 68 000 470 to 56 000 470 to 47 000 470 to 27 000	16 25 50 100	
1206	3009/022 3009/040	CEC12 02S CEC12 04S	06 03	1 to 6 800 1 to 5 600 1 to 5 600 1 to 3 900	16 25 50 100	
0603	3009/037 3009/040	CEC14 02S CEC14 04S	06 01	1 to 1 000 1 to 680 1 to 560 1 to 330	16 25 50 100	
0402	3009/042 3009/040	CEC19 02S CEC19 04S	06 13	1 to 330 1 to 120 1 to 100 1 to 82	10 16 25 50	



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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 noncompliance:

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Executive Manager Disposition

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Application Approval: Yes ☒ No ☐

Action / Remarks:

Date: 30 August 2025

Ali Zadeh

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

Tests vehicle identification/description:

CEC2 02S 680pF 5% 50V	3009003066800JC	DC2335
CEC4 02 S 10nF 5% 50V	3009004061002KC	DC2346
CEC7 02 S 56.2nF 1% 25V	3009006065622FA	DC2316
CEC14 02 S 100pF 10% 50V	3009037061000KC	DC2346
CEC14 02 S 560pF 5% 50V	3009037065600JC	DC2339
CEC14 04 S 47pF 5% 50V	300901001470JC	DC2348

Detail Specification reference:

3009/004/005/006/037/040, EFD 703.06.390 issue D

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	2335 2346 2316 2346 2339 2348	20 20 20 20 20 20	0	
	Rapid Change of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	2335 2346 2316 2346 2339 2348	20 20 20 20 20 20	0	
	Steady State Humidity	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.2	2335 2346 2316 2346 2339 2348	20 20 20 20 20 20	0	
	Visual Inspection	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.5	2335 2346 2316 2346 2339 2348	20 20 20 20 20 20	0	
Endurance Subgroup	Mounting	<input checked="" type="checkbox"/>	IEC 60384-1, 4.33	2335 2346 2316 2346 2339 2348	10 10 20 10 10 10	0	
	Operating Life	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.9	2335 2346 2316 2346 2339 2348	10 10 20 10 10 10	0	1 000H

Electrical Subgroup	Mounting	<input checked="" type="checkbox"/>	IEC 60384-1, 4.33	2335 2346 2316 2346 2339 2348	3 3 6 3 3 3	0	
	Capacitance-Temperature Characteristics	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.10	2335 2346 2316 2346 2339 2348	3 3 6 3 3 3	0	
	Robustness of Terminations	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.7	2335 2346 2316 2346 2339 2348	3 3 6 3 3 3	0	
Ass. / Capab. Subgroup	Solderability	<input checked="" type="checkbox"/>	IEC 60068-2-58	2335 2346 2316 2346 2339 2348	3 3 6 3 3 3	0	
	Permanence of Marking	<input type="checkbox"/>	ESCC 24800	2335 2346 2316 2346 2339 2348	3 3 6 3 3 3	0	

