		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1
		Component Title: Capacitors, Fixed, Surface Mount, D.C Self-Healing, Non-Inductive, Polyterephtalate Dielectric, Based on Type PM948S/94S, PM907S/90S Executive Member: CNES		Date: 09/10/2024 Appl. No. 353C	
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
3006 026	01 to 08	22nF to 47µF – 50V to 630V	PM948S/NS	PM948S 2.2µF 400V PM948S 1µF 630V	
3006 024	01 to 08	100nF to 47µF - 50V to 400V	PM94S/NS	PM94NS 15µF 50V	
3006 025	01 to 32	82nF to 100µF - 50V to 1250V	PM907S/RxS/NS	PM907S 33µF 170V PM907R 33µF 250V	
3006/020	01 to 24	220nF to 150µF – 50V to 630V	PM90S	PM90S 100µF 100V	
Component Manufacturer EXXELIA		Location of Manufacturing Plant(s) 105, rue du Général Leclerc 67441 MARMOUTIER FRANCE		Date of original qualification approval: Date: 24/03/2016 Certificate Ref No. 338	
ESCC Specifications used for Maintenance of qualification testing: Generic: 3006 Issue: 4 Detail(s): 3006/026 Issue: 6 3006/025 Issue: 8 3006/024 Issue: 12 3006/020 Issue: 10		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 type="checkbox"/> Yes <input checked="" type="checkbox"/> (Supply details)		Qualification Extension Report reference and date: Test Reports: PM 90 S 100µF+-10% 100V MG312221200449 230242 i.A PM 94 NS 2 15µF ±10% 50V MG312230100302 240003 i.A PM 907 R1 S 33µF +-10% 250V MG312221100281 230320 i.A PM 907 S 33µF+-10% 170V MG312220800023 220723 i.A PM 948 S3 2.2µF +-10% 400V MG312220700475 230031 i.A PM 948 S4 1µF ±10% 630V MG312230100618 230624 i.A	
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	
Dashboard - MOQ - ESCC 3006 - certificate 353 C - sales				40975	
PID changes since last maintenance of qualification		Current PID Verified by:		G. Quadri, CNES	
None <input type="checkbox"/>		Ref No: 912.18.390		Name of Executive Representative	
Minor* <input checked="" type="checkbox"/>		Issue: E		Date: 22/05/2018	
Major* <input type="checkbox"/> *Provide details in box: 19		Rev Date: 01/11/2023			
Current Manufacturing facilities surveyed by: G. Quadri, CNES on 19/12/2023					
(Name of Executive Representative) (Date)					
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain					
Report Reference: 2024.0001061 ESCC Audit Report EXXELIA Marmoutier					



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Failure Analysis, DPA, NCCS available: Yes No (Supply data) NCCS 2CETE403 (closed)

Ref. No's and purposes: 2CETE403 (closed) : manufacturing and testing of MoQ testing has been delayed due to an increase in production

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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: 09/10/2024


L. FONTAINE, CNES
(Signature of the Executive Coordinator)

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Continuation of Boxes above:

Box 6.: Some procurement sometimes use specifications agreed with EXXELIA (EFD documents as shown in Annex 1). These documents are similar to ESCC formats and data issued from lots manufactured against these EXXELIA specifications are accepted as relevant to the purpose of maintaining ESCC qualification.



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Non compliance to ESCC requirements:

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No.:	Specification	Paragraph	Non compliance
1			

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:

B. Schade: Head of the Product Assurance and Safety Department



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

Tests vehicle identification/description:

300602008B107KE DC2312 (PM 90 S 100µF+/- 10% 100V)	3006002401156KC DC2345 (PM 94 NS 2 15µF ±10% 50V)
300602505C336KF DC2238 (PM 907 S 33µF+/- 10% 170V)	300602515C336KH DC2313 (PM 907 R1 S 33µF +/-10% 250V)
300602603C225KK DC2251 (PM 948 S3 2.2µF +/-10% 400V)	300602604C105KZ DC2334 (PM 948 S4 1µF ±10% 630V)

Detail Specification reference: 3006/020 Iss. 10, 3006/024 Iss.12, 3006/025 Iss.8, 3006/026 Iss.6, EFD 573.00.390 Iss. G

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental / Mechanical Subgroup 1 (Column 1)	Rapid Change of Temperature	<input checked="" type="checkbox"/>	IEC 68-2-14	2312	6	0	
				2238	3		
				2313	3		
				2251	3		
				2334	3		
	Vibration	<input checked="" type="checkbox"/>	IEC 68-2-6	2312	6	0	
				2238	3		
				2313	3		
				2251	3		
				2334	3		
	Shock or Bump	<input checked="" type="checkbox"/>	ESCC 3006, Para. 9.13	2312	6	0	
				2238	3		
				2313	3		
				2251	3		
				2334	3		
	Climatic Sequence	<input checked="" type="checkbox"/>	ESCC 3006, Para. 9.14	2312	6	0	
				2238	3		
				2313	3		
				2251	3		
				2334	3		
	Seal Test	<input type="checkbox"/>	IEC 68-2-17				Not Applicable
Environmental / Mechanical Subgroup 1 (Column 2)	Robustness of Terminations	<input checked="" type="checkbox"/>	IEC 68-2-21	2312	6	0	(*) Replaced with Adhesion as per para 4.2.4 (c) of 3006/026 for variants 01 to 04
				2238	3		
				2313	3		
				2251	3		
				2334	3		
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	IEC 68-2-20	2312	6	0	
				2238	3		
				2313	3		
				2251	3		
				2334	3		
	Climatic Sequence	<input checked="" type="checkbox"/>	ESCC 3006, Para. 9.14	2312 2238	12 6	0	

				2313 2251 2334	6 6 6		
	Seal Test	<input type="checkbox"/>	IEC 68-2-17				Not Applicable
Endurance Subgroup 2A	Radiographic Inspection	<input checked="" type="checkbox"/>	ESCC 20900	2312 2345 2238 2313 2251 2334	16 16 10 10 10 10	0	
	Operating Life	<input checked="" type="checkbox"/>	ESCC 3006, Para. 9.16	2312 2345 2238 2313 2251 2334	16 16 10 10 10 10	0	
Electrical Subgroup 2B	Temperature Coefficient	<input checked="" type="checkbox"/>	ESCC 3006, Para. 8.4.1.5	2312 2345 2238 2313 2251 2334	6 6 3 3 3 3	0	
Capability Subgroup 3	Solderability	<input checked="" type="checkbox"/>	IEC 68-2-20	2312 2345 2238 2313	6 6 3 3	0	
	Permanence of Marking	<input checked="" type="checkbox"/>	ESCC 24800	2312 2345 2238 2313	6 6 3 3	0	

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
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

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.