

	<b>APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</b> Component Title: Capacitors, Ceramic, Type II, High Capacitance, Based on Case Styles BR, CV, CH Executive Member: UKSA Date: 27/09/2024	Page 1 Appl. No. <b>367B</b>
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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
3001/030	01 to 74  01 to 52, and 59 to 60	50v, 100v and 200 volt (E12  500v (E12)		300103012106 300103030685 300103006225	
3001/034	01 to 22	1.0 to 5.0kV	VR, CV and CH	300103401152	
3009/034	01 to 12	01 to 12 with metalised pads	1812 and 1825	300903401153	

Component Manufacturer Kyocera Avx	2	Location of Manufacturing Plant(s) Hillmans Way Coleraine BT52 2DA N Ireland	3	Date of original qualification approval: Date: 1996/2000/2001 merged 2020  Certificate Ref No. 367	4
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ESCC Specifications used for Maintenance of qualification testing: Generic: 3001 Issue: 05 3009 Issue: 05  Detail(s): 3001/030 Issue: 9 3001/034 Issue: 6 3009/034 Issue: 5	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: COL/ESR/24-01 COL/ESR/24-02 COL/ESR/24-03 COL/ESR/24-04 COL/ESR/24-05	7
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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

PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box:	9	Current PID Verified by: <u>Cathy Chandler, UKSA</u> Name of Excutive Representative Ref No: COL / ESA / PI-01 Issue: M Date: 02/09/24 Rev Date: 7/2024	10
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Current Manufacturing facilities surveyed by: <u>UKSA and ESA</u> on <u>24/06/2024</u> (Cathy Chandler) (Date)	11
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain	
Report Reference: <u>Kyocera AVX-AUD-2024</u>	

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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  
UKSA as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

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(Signature of the Executive Coordinator)

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Continuation of Boxes above:



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Non compliance to ESCC requirements:

15

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

17

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 3001 generic specification; Chart F4 specification; (for ESCC/QPL parts);
- ESCC 3009 generic specification; Chart F4 specification; (for ESCC/QPL parts);

Tests vehicle identification/description:

COL/ESR/24-01	300103006225 DC2316	COL/ESR/24-02	300103030695 DC2307
COL/ESR/24-03	300103012106 DC2305	COL/ESR/24-04	300103401152 DC2242
COL/ESR/24-05	300103401153 DC2319		

Detail Specification reference: 3001/030 3001/034 3009/034

Chart V	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		80		
	Rapid Change of Temperature	<input checked="" type="checkbox"/>	ESCC 3001 Para 8.5 ESCC 3009 Para 8.8		80		
	Visual Inspection	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.8 ESCC 3009, Para. 8.5		80		
	Steady State Humidity	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.2 ESCC 3009, Para. 8.2		80		
	Vibration	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.10		12		
	Shock	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.11		12		
Endurance Subgroup	Mounting	<input checked="" type="checkbox"/>	IEC 60384-1		50		
	Operating Life	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.12 ESCC 3009, Para. 8.9		50		
	Electrical Measurements during Endurance Testing	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.6 ESCC 3009, Para. 8.3		50		
Electrical Subgroup (Elect. Meas.)	Mounting	<input checked="" type="checkbox"/>	IEC 60384-1		15		
	Temperature Characteristic (Type II)	<input checked="" type="checkbox"/>	ESCC 3001, Para.8.10 ESCC 3009, Para.8.13		15		
	Robustness of Terminations	<input checked="" type="checkbox"/>	ESCC 3009, Para.8.7		15		
Electrical Subgroup (Ass. /	Solderability	<input checked="" type="checkbox"/>	IEC 68-2-20		15		
		<input type="checkbox"/>					
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.