

		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1
		Component Title: CAPACITORS, CERAMIC, TYPE II, HIGH CAPACITANCE BASED ON CASE STYLES BR, CV, AND CH; HIGH VOLTAGE, 1.0 TO 5.0KV BASED ON CASE STYLES VR, CV AND CH; FIXED, CHIP, CERAMIC, TYPE II, HIGH VOLTAGE BASED ON 1812 AND 1825			Appl. No.
Executive Member: UKSA		Date: 17/05/2022		367A	
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
3009/041	all variant				
3001/030	01 to 74	50v, 100v and 200 volt (E12)			
3001/034	01 to 22	1.0 to 5.0kV	VR, CV and CH		
3009/034	01 to 12	01 to 12 with metalised pads	1812 and 1825	See page 4 and 5	
Component Manufacturer Kyocera Avx		Location of Manufacturing Plant(s) Hillmans Way Coleraine BT52 2DA N Ireland		Date of original qualification approval: Date: 1996/2000/2001 merged 2020 Certificate Ref No. 367	
ESCC Specifications used for Maintenance of qualification testing: Generic: 3001 Issue: 04 3009 Issue: 04 Detail(s): Issue: 3001/030 issue 9 3009/041 issue 3 3001/034 issue 6 3009/034 issue 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: COL/ESR/22-01 May 2022	
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	
3001/030				57k pcs	
3001/034				27k pcs	
3009/034				877pcs	
Click here to enter text.		Click here to enter text.			
PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box: Corporation Name Change Update specification revisions			Current PID Verified by: Cathy Chandler, UKSA Name of Executive Representative Ref No: COL/ESA/PI-01 and COUESNPI-02 Issue: L and 1 Date: 13/05/2022 Rev Date: 01/05/2022 and 24/01/2022		
Current Manufacturing facilities surveyed by: ESA on 24/01/2017 (Name of Executive Agency) (Date)					
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain					
Report Reference: ESA-TECQES-MIN-004092					



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: CAPACITORS, CERAMIC, TYPE II, HIGH CAPACITANCE, BASED ON CASE STYLES BR, CV, AND CH: HIGH VOLTAGE, 1.0 TO 5.0KV BASED ON CASE STYLES VR, CV AND CH: FIXED, CHIP, CERAMIC, TYPE II, HIGH VOLTAGE BASED ON 1812 AND 1825

Executive Member: UKSA

Date: 17/05/2022

Page 2

Appl. No.

367 A

12

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

Ref. No's and purposes:

13

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

Date: 18th May 2022

(Signature of the Executive Coordinator)
Cathy Chandler, UKSA

14

Continuation of Boxes above:



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: CAPACITORS, CERAMIC, TYPE II, HIGH CAPACITANCE BASED ON CASE STYLES BR, CV, AND CH; HIGH VOLTAGE, 1.0 TO 5.0KV BASED ON CASE STYLES VR, CV AND CH; FIXED, CHIP, CERAMIC, TYPE II, HIGH VOLTAGE BASED ON 1812 AND 1825

Executive Member: UKSA

Date: 17/05/2022

Page 3

Appl. No.

367A

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:

16

Executive Manager Disposition

17

Application Approval: Yes No

Action / Remarks:

Date:

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



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: CAPACITORS, CERAMIC, TYPE II, HIGH CAPACITANCE, BASED ON CASE STYLES BR, CV, AND CH; HIGH VOLTAGE, 1.0 TO 5.0KV BASED ON CASE STYLES VR, CV AND CH; FIXED, CHIP, CERAMIC, TYPE II, HIGH VOLTAGE BASED ON 1812 AND 1825

Executive Member: UKSA

Date: 17/05/2022

Page 4

Appl. No.

367A

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

18

Tests conducted in compliance with:

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

Test vehicle identification/description:

300903407563 (1825AC563KE2JWF) 30090 4106 475KC (18125C 475KE8DVR)
 30090 4110333KA (0 4023C333KE8DVR) 30090 410510 4JE (12101C10 4JE2DUR)
 30090 4102103JC (06035C103JE2DUR)

Detail Specification reference: 3009/034

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"/>	ESCC 3009 Para 8.6		100	0	
	Rapid Change of Temperature	<input checked="" type="checkbox"/>	ESCC 3009 Para 8.8		100	0	
	Damp Heat Steady State	<input checked="" type="checkbox"/>	IEC68-2-78		100	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 3009 Para 8.5		100	0	
Endurance Subgroup	Mounting	<input checked="" type="checkbox"/>	ESCC 3009 Para 8.6		50	0	
	Operating Life	<input checked="" type="checkbox"/>	ESCC 3009 Para 8.9		50	0	
Electrical Subgroup (Elect. Meas.)	Mounting	<input checked="" type="checkbox"/>	ESCC 3009 Para 8.6		15	0	
	Temperature Characteristic (Type II)	<input checked="" type="checkbox"/>	ESCC 3009 Para. 8.10		15	0	
	Robustness of Terminations	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.7		15	0	
Electrical Subgroup (Ass. / Capab. Tests)	Solderability	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.11		15	0	
	Permanence of Marking	<input type="checkbox"/>					Not Applicable
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: CAPACITORS, CERAMIC, TYPE II, HIGH CAPACITANCE BASED ON CASE STYLES BR, CV, AND CH; HIGH VOLTAGE, 1.0 TO 5.0KV BASED ON CASE STYLES VR, CV AND CH; FIXED, CHIP, CERAMIC, TYPE II, HIGH VOLTAGE BASED ON 1812 AND 1825

Executive Member: UKSA

Date: 13/05/2020

Page 5

Appl. No.

367A

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

18

Tests conducted in compliance with:

- ESCC 3001 generic specification; Chart F4 (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

300103066107KE (CH891C107KE3RJ7)	300103003824KL (BR667C824KE2XZ1)
300103011106KC (CH435C106KE7RV0)	300103408473MM (CV41AC473ME3RS2)
300103034335KG (CV61AC564KE3RO2)	300103023156KE (CH541C156KE3RJ7)
300103414223KR (CV61HC223XE3RP2)	
300103031106KG (CH642C106KE3RG0)	

Detail Specification reference: 3001/030 for lot G789030 and H000450, 3001/030 iss6 plus customer amendment for lot G749480; 3001/034 (and additional customer's amendment) for G724380 and G588030

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental / Mechanical Subgroup	Robustness of Terminations	<input checked="" type="checkbox"/>	Lead peel	all	40	0	As production control in ESCC 3001
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.9	all lots	24	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 20500	all lots	24	0	
	Climatic Test Sequence	<input type="checkbox"/>					Not required in ESCC 3001
Environmental / Mechanical Subgroup (Column 2)	Rapid Change of Temperature	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.5	all lots	60	0	
	Steady State Humidity	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.2	all lots	60	0	1000h
	Vibration	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.10	all lots	24	0	After RCT
	Shock	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.11	all lots	24	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.8	all lots	24	0	
Endurance Subgroup	Operating Life	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.12	all lots	60	0	1000 h required for maintenance
	Electrical Meas. After Endurance Testing	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.12	all lots	60	0	
Electrical Subgroup (Electrical Measure)	Temperature Coefficient (Type I)	<input type="checkbox"/>	ESCC 3001, Para.8.13				N/A
	Temperature Characteristic (Type II)	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.13	all lots	40	0	
	Solderability	<input checked="" type="checkbox"/>	ESCC 3001, Para. 8.14	all lots	0	0	cover by the assembly performed for operating life test
	Permanence of Marking	<input type="checkbox"/>	ESCC 24800			0	n/a



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title CAPACITORS,CERAMIC, TYPE II, HIGH CAPACITANCE,BASED ON CASE STYLES BR, CV, AND CH: HIGH VOLTAGE, 1.0 TO 5.0KV BASED ON CASE STYLES VR,CV AND CH: FIXED, CHIP, CERAMIC, TYPE II, HIGH VOLTAGE BASED ON 1812 AND 1825

Executive Member: UKSA

Date: 17/05/2022

Page 6

Appl. No.

367A

ANNEX 2 : CONFIDENTIAL DATA

PID changes details

- None
- Minor Name of manufacturer change form AVX to Kyocera AVX
- Major Qualification of a new flux for internal soldering

19

Noncompliance to ESCC requirements:

20

No.:	Specification	Paragraph	Non compliance

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

CONFIDENTIAL

21

Additional Comments

CONFIDENTIAL

22

**ESCC****APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL**

Component title: CAPACITORS, CERAMIC, TYPE II, HIGH CAPACITANCE BASED ON CASE STYLES BR, CV, AND CH; HIGH VOLTAGE, 1.0 TO 5.0KV BASED ON CASE STYLES VR, CV AND CH; FIXED, CHIP, CERAMIC, TYPE II, HIGH VOLTAGE BASED ON 1812 AND 1825

Executive Member: UKSA

Date: 17/05/2022

Page 7

Appl. No.

367A

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.

