_			APPLICA	TION I	FOR	EXTENSI	ON OF ES	SCC Q	UALIF	ICATION APPROVAL		Page 1	
E	SCC	Compo	nent Title:			ors, Leadle nnection, b			ed, Tant	alum, Solid Electrolyte, enc	losed	Appl. No).
		Executi	ve Member	: E	SA				D	Pate: 22/01/2020		196Ј	
Components (including	g series and families)	submitted for	or Extension	n of Qua	lificat	tion Appro	val:						1
ESCC COMPONENT NO.	VARIANTS	RANGE OF C			COMPONENTS			BASED ON		TEST VEHICLE / S		COMPONENT SIMILAR	Γ
3012001	01 - A — Nilo only 02 - B — Nilo only 13 - C - Copper onl 14 - D — Cooper on 17 - E — Cooper on	B —Nilo only C - Copper only D — Cooper only			SCC 3012/001 Table 1(a) ,1 μF – 220 μF, 4 V up to 50V					See box 14	All o	other variants and es	đ
Component M	anufacturer	2	Location	n of Mar	nufact	turing Plant	(s)	3					4
AVX Czech Republic	s.r.o	Lan	orakova 328 skroun ch Republic						Date:	of original qualification app 01/06/1993	oroval:		
									Certi	ficate Ref No. 196			
ESCC Specifications u Maintenance of qualifi		5 Dev	riations to L	VT testi	ng an	d Detail Sp	ecification	6		ification Extension Report			7
Generic: 3012	Issue: 3	No		Yes		(supply o	letails in E	Box		Extension of Valid Qualification_report_T			nation
Detail(s): 3012/00	l Issue: 6	Dev No	viation from	current Yes	Speci	fications: (Supply	details)						
Summary of procurem	ent or equivalent test	esults durir	ng current v	alidity n	eriod	in support	of this ann	lication	(those	to ESCC listed first)			8
Project Name	Testing Le		LA				Date cod			Quantity	y Delive	ered	
See box 22.													
		Ì											
PID changes since star	t of qualification	ı		9	Curi	rent PID	Verified by	<i>r</i> :		ESA			10
None 🗵									N	Jame of Excutive Represent	ative A	gency	
Minor* □					Ref	No:	Ad1) Ger	eral PII	D – PID	100 issue 4+ Ad2)Detailed	PID for	TAJ – PID100/0	0013

Issue:

☐ Explain

No

Rev Date:

ESA

(Name of Executive Representative Agency)

Date:

07/2017

11

23/24 June 2015 (Date)

Major*

Satisfactory:

Report Reference:

Current Manufacturing facilities surveyed by:

*Provide details in box:

Yes 🖂

AVXLAN-AUD-2015-02

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL Page 2 Component title: Capacitors, Leadless Surface Mounted, Tantalum, Solid Electrolyte, enclosed Appl. No. anode connection, based on type TAJ 22/01/2020 Executive Member: ESA Date: 196J 12 Failure Analysis, DPA, NCCS available: \boxtimes (Supply data) Yes No 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 ESA as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein Date: 23/03/2020 (Signature of the Executive Coordinator) 14 Continuation of Boxes above: [1] Test vehicles selected for this extension of qualification: Coverage of different case sizes Coverage wide range of voltage Coverage different capacitances and used powders 0 0 Purchased units from last re-qualification A 1/20 - 301200101 105DK B1/35 - 301200102 105VK C22/16 - 301200103 226CK D2,2/50 - 301200104 225TK E220/10- 301200105 227AK

ESCC
Non compliance to ESCC requirements:

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Capacitors, Leadless Surface Mounted, Tantalum, Solid Electrolyte, enclosed anode connection, based on type TAJ Component title:

Appl. No.

Page 3

No.: Specification Additional tasks required to achieve full compliance for ESCC qualification or nationale for acceptability of noncompliance: Executive Manager Disposition Application Approval: Yes No No Action / Remarks: AVX actually re-conducted full Qualification tests (Chart IV of ESCC 3012), which exceeds the requirements for extension (Chart V LAT1) Disc: Disc: Digitally signed by Britta Schade Date: 2020.03.27 100.119+0.11007 B. Schade: Blad of ESA Product Assurance and Steely Personners			Executive M	dember: ESA	Date:	22/01/2020	196J
Additional tasks required to achieve full compliance for ESCC qualification or rationals for acceptability of moneomyplance: 16	Non comp	liance to ESCC requirements:					15
Additional tasks required to achieve full compliance for ESCC qualification or rationals for acceptability of moneomyplance: 16	No :	Specification		Paragraph		Non compliance	
Executive Manager Disposition Application Approval: Yes S No Action / Remarks: AVX actually re-conducted full Qualification tests (Chart IV of ESCC 3012), which exceeds the requirements for extension (Chart V LAT1) Date: Date: Date: Digitally signed by Britta Schade Date: 2020.03.3.7 10:01:19 +01'00' B. Schade: Head of ESA Product Assurance	100.1	Specification		. wagagii		Northead	
Executive Manager Disposition Application Approval: Yes S No Action / Remarks: AVX actually re-conducted full Qualification tests (Chart IV of ESCC 3012), which exceeds the requirements for extension (Chart V LAT1) Date: Date: Date: Digitally signed by Britta Schade Date: 2020.03.3.7 10:01:19 +01000 B. Schade: Head of ESA Product Assurance	Additional	I tasks required to achieve full comp	liance for ESC	C qualification or rationale for acceptability of	•		16
Application Approval: Yes © No □ Action / Remarks: AVX actually re-conducted full Qualification tests (Chart IV of ESCC 3012), which exceeds the requirements for extension (Chart V LAT1) Digitally signed by Britta Schade Date: 2020.03.27 10:01:19 +01'00' B. Schade: Head of ESA Product Assurance	noncompli	iance:					16
Application Approval: Yes © No □ Action / Remarks: AVX actually re-conducted full Qualification tests (Chart IV of ESCC 3012), which exceeds the requirements for extension (Chart V LAT1) Digitally signed by Britta Schade Date: 2020.03.27 10:01:19 +01'00' B. Schade: Head of ESA Product Assurance	Evecutive	Manager Disposition					
Action / Remarks: AVX actually re-conducted full Qualification tests (Chart IV of ESCC 3012), which exceeds the requirements for extension (Chart V LAT1) Digitally signed by Britta Schade Date: 2020.03.27 10:01:19 +01'00' B. Schade: Head of ESA Product Assurance	Executive	Manager Disposition					17
B. Schade: Head of ESA Product Assurance	Action / Rd AVX actua	emarks:				Digitally signe by Britta Scha Date: 2020.03	ed ode 3.27
					B. Sc		



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Capacitors, Leadless Surface Mounted, Tantalum, Solid Electrolyte, enclosed

anode connection, based on type TAJ

Executive Member: Date: 22/01/2020

Page 4 Appl. No. 196J

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

Tests conducted in compliance with:

ESCC 3012 generic specification; Chart V (for ESCC/QPL parts);

Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

See box 14 (5 references):

A 1/20 - 301200101 105DK B1/35 - 301200102 105VK C22/16 - 301200103 226CK

D2,2/50 - 301200104 225TK E220/10- 301200105 227AK

Component Title:

3012/001 Detail Specification reference:

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
	Mounting	\boxtimes	IEC 384-1	19xx	12 x5	0	
nn 1)	Adhesion	\boxtimes	ESCC 3012, Para. 9.10	19xx	12 x5	0	
Environmental / Mechanical Subgroup (Column 1)	External Visual Inspection	\boxtimes	ESCC 20500	19xx	12 x5	0	
Envii Me ubgroi	Permanence of Marking		ESCC 24800	19xx	12 x5	0	
S	Climatic Sequence	\boxtimes	ESCC 3012, Para. 9.13	19xx	12 x5	0	
O.	Mounting		IEC 384-1	19xx	12 x5	0	
Environmental / Mechanical Subgroup (Column 2)	Rapid Change of Temperature	\boxtimes	IEC 68-2-14	19xx	12 x5	0	
	Vibration	\boxtimes	IEC 68-2-6	19xx	12 x5	0	
	Shock or Bump	\boxtimes	IEC 68-2-27 or IEC 68-2-29	19xx	12 x5	0	
	External Visual Inspection		ESCC 20500	19xx	12 x5	0	
vironr	Permanence of Marking		ESCC 24800	19xx	12 x5	0	
ப்	Climatic Sequence		ESCC 3012, Para. 9.13	19xx	12 x5	0	
	Mounting	\boxtimes	IEC 384-1	19xx	36 x5	0	
Endurance	Operating Life at T ₁ °C	×	ESCC 3012, Para. 9.17.2, T1=85C	19xx	36 x5	0	
	Electrical Measurements during Endurance Testing	\boxtimes	ESCC 3012, Para. 9.4.5	19xx	36 x5	0	

18



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title:

Capacitors, Leadless Surface Mounted, Tantalum, Solid Electrolyte, enclosed anode connection, based on type TAJ

22/01/2020 Executive Member: Date:

Page 5

Appl. No. 196J

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
group I nts)	High and Low Temperature Stability		ESCC 3012, Para. 9.14	19xx	12 x5	0	
Electrical Subgroup (Electrical Measurements)	Electrical Measurements at Room Temperature		ESCC 3012, Para. 9.4.4	19xx	125 x5	0	
Electr (Mex	External Visual Inspection		ESCC 20500	19xx	125 x5	0	
_ 0g	Surge Voltage		ESCC 3012, Para. 9.15	19xx	12 x5	1	
Electrical Subgroup (Ass. / Capab Tests)	Solderability	\boxtimes	IEC 68-2-20	19xx	12 x5	0	
nal	Operating Life at 125C		ESCC 3012, Para. 9.17.2	19xx	24 x5	0	Performed as part of chart IV
Additional Tests	Damp Heat Steady State		ESCC 3012, Para. 9.16	19xx	12 x5	0	Performed as part of chart IV
ď.							



Box 22

Additional Comments.

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Capacitors, Leadless Surface Mounted, Tantalum, Solid Electrolyte, enclosed anode connection, based on type TAJ Component title:

Date: 22/01/2020 196J

Page 7

Appl. No.

Executive Member: ESA

NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

	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.