			APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL								Page I	
LOCC			omponent Title: Capacitors, Leadless Surface Mounted, Tanta anode connection, based on type TAJ					intalum, Solid Electrolyte, enclosed		Appl. N	0.	
				ESA Date: 22/02/2018				196Н				
Components (incl	luding series and families)	submit	ted for Extension of Qu	alifica	ition Appro	oval:						Ī
ESCC COMPONENT N	VARIANTS		RANGE OF COMPONENTS			В	BASED ON		TEST VEHICLE / S		COMPONEN SIMILAR	Т
3012001	3012001 01 - A - Nilo only 02 - B - Nilo only 13 - C - Copper only 14 - D - Cooper only 17 - E - Cooper only			ESCC 3012/001 Table 1(a) 0,1 μF – 220 μF, 4 V up to 50V					her variants ar	ıd		
Compone AVX Czech Repu	ent Manufacturer ublic s.r.o	2	Location of Ma Dvorakova 328 Lanskroun Czech Republic	anufac	eturing Plar	nt(s)	3	Date:	of original qualification app 01/06/1993 Ticate Ref No. 196	proval:		4
ESCC Specifications used for Maintenance of qualification testing: Generic: 3012 Issue: 3 Detail(s): 3012/001 Issue: 6			used: reference and No ⊠ Yes □ (supply details in Box "ESA Extens			fication Extension Report nce and date: Extension of Valid Qualif ge", qualification_report_						
												8
Project Nar	me Testing Le		LAT	period	in support	Date code		(those t		y Deliver	ed	
See box 22.						Surviva			- Vanimin	y belive.		
1011 V V	ce start of qualification		9	Cui	rrent PID	Verified by	:		ESA			10
None ⊠ Minor* □				Ref	f No:	Adl) Gen	eral PII		ame of Excutive Represent 100 + Ad2)Detailed PID for		PID100/001	
Major* □		ox:		Issi	ue:	3		- 275	Date		07/2017	
C1 VI				Res	v Date:			7,500		12/06/22		
Current Manufacturing facilities surveyed by:					ESA			on	. 2	23/06/201:	2	

(Name of Executive Representative)

☐ Explain

No

AVXLAN-AUD-2015-02

(Date)

Yes 🛛

Satisfactory:

Report Reference:

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 Executive Member: 29/02/2016 Date: 196G 12 Failure Analysis, DPA, NCCS available: Yes No \boxtimes (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. leonon (Signature of the Executive Coordinator) 14 [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 Purchased units from last re-qualification A4,7/10 - 301200101 475AK B0,33/50 - 301200102 334TK C6,8/25 - 301200113 685EK D100/4 - 301200114 107GK E68/20 - 301200017 686DK [5]

Carl a	ESCC
Tool of	100

Component title:

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

Executive Member: ESA Date: 29/02/2016 Appl. No. 196G

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Non compliance to ESCC requirements:					
No.:	Specification	Paragraph	Non compliance		
Additional noncompli	tasks required to achieve full compliance for ESC	C qualification or rationale for acceptability of		16	
	Manager Disposition			17	
Applicatio Action / R	n Approval: Yes No emarks:				
		of ESCC 3012), which exceeds the requirements for	r extension (Chart V LAT1)		
Date:			Ah O1		
			Signature, ESA Representative		



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

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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)

See box 14 (5 references):

(for ESCC/QML parts)

Tests vehicle identification/description:

A4,7/10 - 301200101 475AK B0,33/50 - 301200102 334TK

C6,8/25 - 301200113 685EK D100/4 - 301200114 107GK E68/20 - 301200017 686DK

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	⋈	IEC 384-1	17xx	12 x5	0	
7 = ()	Adhesion	⋈	ESCC 3012, Para. 9.10	17xx	12 x5	0	
Environmental / Mechanical Subgroup (Column 1)	External Visual Inspection	⊠	ESCC 20500	17xx	12 x5	0	
	Permanence of Marking	⊠	ESCC 24800	17xx	12 x5	0	
S	Climatic Sequence	⊠	ESCC 3012, Para. 9.13	17xx	12 x5	0	
0	Mounting	⋈	☑ IEC 384-1		12 x5	0	
Subgroup	Rapid Change of Temperature	⊠	IEC 68-2-14	17xx	12 x5	0	
) ical	Vibration	⊠	IEC 68-2-6	17xx	12 x5	0	
Environmental / Mechanical Subgroup (Column 2)	Shock or Bump	⊠	IEC 68-2-27 or IEC 68-2-29	17xx	12 x5	0	
	External Visual Inspection	⊠	ESCC 20500	17xx	12 x5	0	
	Permanence of Marking	⋈	ESCC 24800	17xx	12 x5	0	
	Climatic Sequence	⊠	ESCC 3012, Para. 9.13	17xx	12 x5	0	
Endurance Subgroup	Mounting	⊠	IEC 384-1	17xx	36 x5	0	
	Operating Life at T ₁ °C	⊠	ESCC 3012, Para. 9.17.2, T1=85C	17xx	36 x5	0	
	Electrical Measurements during Endurance Testing	×	ESCC 3012, Para. 9.4.5	17xx	36 x5	0	



Component title:

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

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Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Electrical Subgroup (Electrical Measurements)	High and Low Temperature Stability	⊠	ESCC 3012, Para. 9.14	17xx	12 x5	0	
	Electrical Measurements at Room Temperature	×	ESCC 3012, Para. 9.4.4	17xx	125 x5	0	
	External Visual Inspection	×	ESCC 20500	17xx	125 x5	0	
Electrical Subgroup (Ass. / Capab. Tests)	Surge Voltage	×	ESCC 3012, Para. 9.15	17xx	12 x5	1	
	Solderability	⊠	IEC 68-2-20	17xx	12 x5	0	
Additional Tests	Operating Life at 125C	⊠	ESCC 3012, Para. 9.17.2	17xx	24 x5	0	Performed as part of chart IV
	Damp Heat Steady State	⊠	ESCC 3012, Para. 9.16	17xx	12 x5	0	Performed as part of chart IV



Component title:

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

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Executive Member: ESA

Date: 29/02/2016

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

N	OTES 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.