			APPLICATION	FOR	EXTENSI	ON OF ES	CC Q	UALIFI	ICATION APPROVAL		Page 1	
e E	SCC	C	Component Title: Ca en	pacit close	ors, Leadless danode conn	Surface M ection, base	ounted	l, Tanta ype TAJ	lum, Solid Electrolyte, J		Appl. No.	
		E	Executive Member:	ESA				D	Date: 18/02/2022		196K	-
Components (includi	ng series and famili	ies) s	ubmitted for Extension	of Q	ualification	Approval:						1
ESCC COMPONENT NO.	VARIANTS		RANGE OF COM	ИРОІ	NENTS	В	ASED ON)	TEST VEHICLE / S		COMPONENT SIMILAR	
3012/001	01 A – G16		ESCC 3012/001 Tab	le 3		TAJ			See box 14	All o	other variants values	
	02 B – G16		0,1 μF – 220 μF, 4 V ι	ip to :	50V							
	13 C – P17											
	14 D – P17											
	17 E – P17											
Component Ma	anufacturer	2	Location of Ma	nufa	cturing Plan	t(s)	3	-	•			4
KYOCERA AVX Con	nponents s.r.o.		Dvorakova 328 Lanskroun Czech Republic					Date Date	of original qualification ap : 01/06/1993	prova	l:	
								Certi	ficate Ref No. 196			
		5					6					7
ESCC Specifications Maintenance of quali	used for fication testing:		Deviations to LVT te used:	sting	and Detail	Specificat	ion	Qual refer	ification Extension Report ence and date:			
Generic: 3012	Issue: 00	4	No 🛛 Yes		(supply 15)	details in E	Box	"ESA Infori	A Extension of Valid Qualif mation Package",	icatior	n, Customer	
Detail(s): 3012/00	1 Issue: 00	8	Deviation from curre No ⊠ Yes	nt Sp	ecifications (Supply	: details)		2022	2_TAJ_196_requalification	.pdf, F	ebruary 2022	
												8
Summary of procure	ment or equivalent	test r	esults during current va	alidity	/ period in s	upport of t	this ap	plicatio	on (those to ESCC listed fi	rst) Delive	ared	
See box 22									Quantity	Delive		
PID changes since s	tart of qualification		9	Сι	Irrent PID	Verified by	/:		M. Nikulainen,	ESA		10
None 🖂				Pr	of No:	Ad1) Con	oral P	N N	lame of Excutive Represe	ntative		1
Major*	*Provide details in	box:		lss	sue:	Ad1) 007	+ Ad2	2) 004	Ditto + Au2) Detailed Fil: Date:	A 101	.d1) + Ad2) 7/202	21
				Re	ev Date:						r	
Current Manufacturin	ng facilities surveye	d by:			F. Mar	tinez, ESA		or	ı		L	11
			(Name	e of E	Executive R	epresenta	tive)			(Date)	23/24 June 201	5
Satisfactory:	Yes 🙀		No 🗆 Ex	olain								
Report Reference:	AVXLAN-AUI	D-201	15-02									
l												

	APPLICAT	ION FOR EXT	ENSION	OF ESCC QUAI		ON APPROVAL	Page	2
ESCC	Component title:	Capacitors, L enclosedano	_eadless de conn	Surface Mounted ection, based on	d, Tantalu type TAJ	ım, Solid Electrolyte,	Appl. N	No.
	Executive Member:	ESA			Date:	18/02/2022	196	ĸ
Failure Analysia DDA NOCO aug			57	(O				12
Failure Analysis, DPA, NCCS ava	IIIadie: res			(Supply data)				
Ref. No's and purposes:								
The undersigned hereby certifies on behalf that the appropriate documentation has be (except as stated in box 15;) - that the repo as the responsible Ex	of the ESCC Executiv en evaluated; - that ful rts and data are availa recutive Member for E	ve - that the ab I compliance to able at the ESC SCC qualificati	ove infor o all ESC CC Exect ion statu	mation is correct C requirements i utive and therefor s to be extended	; - s evidenc e applies to the co	ce on behalf of mponent(s) listed herein.		13
Date:					An	astasia Pesce Digitally signed b	oy Anastasia Pesce 15:27:49 +01'00'	
					(Si	gnature of the Executive 0	Coordinator)	
Continuation of Boxes above:								14
Coverage of different case size Coverage wide range of voltage Coverage different capacitance Purchased units from last re-qu Selected codes: A0,22/35 - 301200101224KV B2,2/25 - 3012001012225KE C10/16 - 301200113106KC D6,8/50 - 301200117157KA E150/10 - 301200117157KA	s and used powders alification							

		APP	PLICATIO	ON FOR EXTENSION OF E	SCC QUAL	IFICATION APPROVAL	Page	3
C'and	ESCC	Component	title:	Capacitors, Leadless Surfa	ace Mounted	d, Tantalum, Solid Electrolyte, type TAJ	Appl. N	lo.
	110	Executive M	lember:	ESA		Date: 18/02/2022	1961	<
Non comp	pliance to ESCC requirements:							15
No.:	Specification			Paragraph		Non compliance	е	
Additional	tasks required to achieve full co	mpliance for E	SCC qu	alification or rationale for ac	ceptability o	of		
noncompl	iance:		1					16
Executive	Manager Disposition							17
Applicatio	n Approval: Yes 🙀	No 🗆						
Action / R	emarks:							
						Dritto Digital	ly signed b	у
						DIIILO Britta S	Schade	
Date:						Schade 14:43:1	4 +02'00'	
Date.						B. Schade: Head of the Produ	ct Assurance	
						and Safety Departn	nent	

	APPLICATI	ON FOR EXTENSION OF ESCC QUALIFIC	ATION APP	PROVAL	Page 4	
ESCC	Component Title:	Capacitors, Leadless Surface Mounted, Tar enclosedanode connection, based on type	ntalum, Soli TAJ	d Electrolyte,	Appl. No).
	Executive Member:	ESA	Date:	18/02/2022	196K	
ANNEX 1: LIST OF TESTS DONE TO SUF	PORT EXTENSION	DF QUALIFICATION				18
Tests conducted in compliance with:						
 ESCC 3012 generic specification Or PID-TFD Tests vehicle identification/description: 	on; Chart FIV (for ES (for ESCC/QML	CC/QPL parts); parts)				
See box 14 (5 references):	A0,22/35 B2,2/25 - C10/16 - D6,8/50 - E150/10	– 301200101224KV - 301200102225KE 301200113106KC - 301200114685KT – 301200117157KA				
Detail Specification reference: 30	12/001		-			

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
hanical Subgroup 1A Lem Lem	Mounting		IEC 60384-1	A2131 B2131 C2127 D2127 E2131	4x5	0	
	Robustness of Terminations		ESCC 3012 issue 4, Para. 8.9	A2131 B2131 C2127 D2127 E2131	4x5	0	
onmental / Me Grou	External Visual Inspection		ESCC 20500	A2131 B2131 C2127 D2127 E2131	4x5	0	
Envir	Climatic Sequence		ESCC 3012 issue 4, Para. 8.10	A2131 B2131 C2127 D2127 E2131	4x5	0	
group	Mounting		IEC 60384-1	A2131 B2131 C2127 D2127 E2131	4x5	0	
echanical Subç p 1B	Rapid Change of Temperature		ESCC 3012 issue 4, Para. 8.2.2 IEC 60068-2-14	A2131 B2131 C2127 D2127 E2131	4x5	0	
onmental / Me Grou	Vibration		ESCC 3012 issue 4, Para. 8.11 IEC 60068-2-6	A2131 B2131 C2127 D2127 E2131	4x5	0	
Envir	Mechanical Shock		ESCC 3012 issue 4, Para. 8.12 IEC 60068-2-27	A2131 B2131 C2127 D2127 E2131	4x5	0	

	External Visual Inspection	\boxtimes	ESCC 20500	A2131 B2131 C2127 D2127 E2131	4x5	0	
	Climatic Sequence	\boxtimes	ESCC 3012 issue 4, Para. 8.10	A2131 B2131 C2127 D2127 E2131	4x5	0	
	Mounting	\boxtimes	IEC 60384-1	A2131 B2131 C2127 D2127 E2131	4x5	0	
al Subgroup	High and Low Temperature Stability	X	ESCC 3012 issue 4, 8.13	A2131 B2131 C2127 D2127 E2131	4x5	0	
tal / Mechanic Group 1C	Surge Voltage	\boxtimes	ESCC 3012 issue 4, 8.14	A2131 B2131 C2127 D2127 E2131	4x5	0	
Environmen	Damp Heat, Steady State	\boxtimes	ESCC 3012 issue 4, 8.15 IEC 60068-2-78	A2131 B2131 C2127 D2127 E2131	4x5	0	
	External Visual Inspection	\boxtimes	ESCC 20500	A2131 B2131 C2127 D2127 E2131	4x5	0	
	Mounting	\boxtimes	IEC 60384-1	A2131 B2131 C2127 D2127 E2131	16x5	0	
Subgroup ating life at 85 °C	Operating Life at 85 °C	\boxtimes	ESCC 3012 issue 4, Para. 8.16(b)	A2131 B2131 C2127 D2127 E2131	16x5	0	
Endurance roup 2B (Opera	Intermediate and Final Measurements		ESCC 3012 issue 4, Para. 8.16(a) ESCC 3012/001 issue 8, Para. 2.4	A2131 B2131 C2127 D2127 E2131	16x5	0	
U	External Visual Inspection	\boxtimes	ESCC 20500	A2131 B2131 C2127 D2127 E2131	16x5	0	

	ESCC	Comp	APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL Component title: Capacitors, Leadless Surface Mounted, Tantalum, Solid Electrolyte, enclosedanode connection, based on type TAJ Executive Member: ESA Date: 18/02/2022					Page 5 Appl. No. 196K	
bility Subgroup up 3	Permanence of Marking		ESCC 24800	A2131 B2131 C2127 D2127 E2131	4x5	0			
Assembly Capa Grou	Solderability		IEC 60068-2-20 ESCC 3012 issue 4, Para. 8.18	A2131 B2131 C2127 D2127 E2131	4x5	0			

		APPLICATI	ON FOR EXTENSION	OF ESCC QUALIF		N APPROVAL	Page 7				
	SCC	Component title:	Capacitors, Leadless enclosedanode conne	Surface Mounted, ection, based on ty	Tantalun pe TAJ	n, Solid Electrolyte,	Appl. No.				
		Executive Member:	ESA	I	Date:	18/02/2022	196K				
	NOTES ON THE COMPL	ETION OF THE APPL	LICATION FORM FOR	ESCC QUALIFIC	ATION E	XTENSION APPROVA	L				
ENTRIES Form heading	shall indicate: - the - the entering date	title of the componen ; - the certificate numl	t as given in its detail sp per and its sequential s	ecification or the na uffix.	ame of th	ne series, family; - the E	xecutive Member;				
Box 1	shall provide detai (the ESCC code is the detail specific identifying the con	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 explana	ation of the changes mu	ust be supplied.							
Box 5	Will show the ES0 reported were per	CC Generic and Deta formed. If the specifica	il specifications, includ ations are different from	ling issue number a those current on t	and revi the date	ision letter, current at t of the application, see E	he time the tests 3ox 6.				
Box 6	Will show the devi deviations this mu indicate also whet	ations from the Gene st be listed in Box 15. her the test data devia	ric and Detail Specifica In case the referenced ates or not from such cu	tions listed in Box specification in Bo: urrent documents.	5, in par x 5 have	ticular deviations from t currently a different issu	esting. In case of ue and/or revision				
Box 7	Must reference the	e report(s) supplied in	support of the applicati	on.							
Box 8	Should provide the to the ESCC Exec	details of procuremer utive under the terms	nt to the full ESCC Syste of the relevant Generic	em, documentation Specification. An	of all of v appropria	vhich should already ha ate table has been draw	ve been delivered /n in this box.				
Box 9	If the PID evolved be provided togeth	after the Original Qua ler with the reasons fo	lification or after the las or the changes. Major c	t Extension of Qua hanges shall be cle	alification early mai	, adequate details of su rked.	ch evolution shall				
Box 10	Identify the currer arranged as close	t PID issue status, d as possible to the req	ate and actual date of uired date of extension	verification. The o	date of v	verification of the curre	nt PID should be				
Box 11	This box can be c practices, procedu out in accordance	ompleted only after a res, material, etc. use with the requirements	n physical visit to the pl d in manufacturing the o s of ESCC Basic Specifi	lant to confirm tha components are as ication No. 20200 a	t no une describe and its fir	xplained changes occu ed in the PID. This surve ndings shall be recorded	rred and that the ey shall be carried d.				
Box 12	Provide details o Nonconformance(satisfactory results	f, or reference to, a s) (NCCS) occurred d s.	ny Destructive Physic uring the qualification v	al Analysis (DPA) ralidity period, stati) and Fa	ailure Analysis reports ablished corrective actic	as well as any on have produced				
Box 13	Enter only the na Coordinator.	me of the Executive	Member (i.e., CNES, I	DLR, ESTEC, etc.)) and the	e signature of the respo	onsible Executive				
Box 14	To be used when the relevant Box.	there is a need to exp 3ox 14 can be broken	and any of the boxes fi into 14a, 14b, etc. if se	rom 1 through 12. veral boxes have t	Identify I to be exp	box affected and referent and deferent and ed.	nce the Box 14 in				
Box 15	Fill in Table as req	uested.									
Box 16	Any additional act by the ESCC Exec	on deemed necessar utive should be listed	y by the Executive Mer herein or the reason(s)	nber to bring the s) to accept the non	ubmitted compliar	data to a standard like nce.	ly to be accepted				
Box 17	All Executive Mana entry, letters to the	ager recommendation manufacturer, etc. sl	s on the application itse nall be entered clearly in	lf, special conditior n Box 19, signed b	ns or rest by the rep	rictions, modifications o resentative for ESA, an	f the QPL or QML d dated.				
Box 18	Fill in Table as req	uested.									
Box 19	Confidential Detail	s of PID changes incl	uding those of a confide	ential nature, shall	be provid	ded.					
Box 20	State noncompliar shall be sequentia	nce with reference to lly numbered. If releva	specification(s) and pa ant state 'None'.	ragraph(s). To sin	nplify refe	erence in Box 16 each	nonconformance				
Box 21	Any additional act by the ESCC Exec	on deemed necessar utive should be listed	y by the Executive Mer herein or the reason(s	nber to bring the s) to accept the non	ubmitted compliar	data to a standard like	ly to be accepted				
Box 22	Additional Comme	nts.									