e de la constante de la consta	ESCC
THE WAY	4

Component Title:

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

E	300		node connection, ba			Electrolyte, enclose	Appl. No.
		xecutive Member:	ESA		Date: 29	/02/2016	196G
Components (including	g series and families) subm	itted for Extension of Q	Qualification Approv	al:			
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS BASED ON				TEST VEHICLE / S	
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			See box		All other variants and values
Commence N	12	I marie e Ch	f District	3 2			
Component M AVX Czech Republic	and the second s	Dvorakova 328 Lanskroun Czech Republic	Manufacturing Plant((s) <u>3</u>	Date of original Date: Certificate Ref N	qualification approva 01/06/1993 lo. 196	4
	5			6			7
ESCC Specifications u Maintenance of qualifi		Deviations to LVT te	esting and Detail Spe	ecification	Qualification Ex reference and da		***
Generic: 3012	Issue: 2	No ⊠ Yes	☐ (supply do	etails in Box	"ESA Extension Package", qualif	of Valid Qualification	on, Customer Information 2016pdf, 29-February
Detail(s): 3012/001	Issue: 5	Deviation from curre No ⊠ Yes	ent Specifications:	letails)	2016		
						t 160800 86	8
Summary of procureme Project Name	Testing Level	s during current validity LAT	period in support o	f this application Date code	(those to ESCC lis	ted first) Quantity De	livered
See box 22.							
			İ				
PID changes since star	t of qualification	9	Current PID V	erified by:		ESA	10
None ⊠					Name of Exc	utive Representative	
Minor* □			Ref No:	Ad1) General PII	D – PID100 + Ad2)	Detailed PID for TA	J-PID100/001
Major* □	*Provide details in box:		Issue: I	2		Date:	07/2015
Current Manufacturing	facilities surveyed by:		ESA		on	23/06/	2015
		(Nam	ne of Executive Repr	resentative)		(Da	
Satisfactory:	Yes ⊠	No □ Ex	C. (1) C.	actions from the	audit have been cle	osed out during a tele	
Report Reference:	AVXLAN-AU	JD-2015-1					



Component title:

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

ESCL	Component title:		on, based on type TAJ	i, l'antalum,	Solid Electrolyte, enclosed	Appl. No.
S. C. C.	Executive Member:	ESA		Date:	29/02/2016	196G
Failure Analysis, DPA, NCCS availa	sklar Var		Ø /6l. 1			12
ranure Analysis, DrA, NCC5 avails	able: Yes	□ No)		
Ref. No's and purposes:						
The undersigned hereby certifies on behalf of that the appropriate documentation has been ev (except as stated in box 15;) - that the reports a stated in the responsible Exec	aluated; - that full comp nd data are available at t	liance to all ESCO he ESCC Executi	C requirements is eviden ve and therefore applies	on behalf of		13
Date:				(Si	gnature of the Executive Coor	rdinator)
Continuation of Boxes above:						
[1]						14
Test vehicles selected for this extension of qual	ification:					
TAJA105K016ESA — the lowest CV for A c TAJB225K020ESA — the highest CV for B of TAJC476K006ESA — the highest CV for C TAJD475K050ESA - the highest voltage an TAJE336K025ESA - the highest CV for E of	case size at 20V, power case size at 6,3V, power and the highest capacita	der group 2 /der group 2 ince, powder gro	oup PT3			
[5] Specifications. The 3012 was updated up to iss the Master file of the specification.	ue 3 through DCR 963 a	t the end of 2015	The change is however	only editoria	al by the adoption of MS Wor	d as editing tool for

ESCC

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title:

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

Appl. No.

	Executive Mer	nber: ESA	Date: 29/02/2016	196G
Non compliance to ESCC requireme	nts:			15
No.: Specific	eation	Paragraph	Non compliance	
Additional tasks required to achieve f	All compliance for ESCC	nualification or rationals for accontability	w.o.c	
noncompliance:	un compliance for ESCC (qualification or rationale for acceptability	y or	16
Executive Manager Disposition				1,2
	□ No □			17
Action / Remarks:				
AVX actually re-conducted full Quali	fication tests (Chart IV of	ESCC 3012), which exceeds the require	ments for extension (Chart V LAT1)	
			^	
			Coli	
Date:				
			Signature, ESA Representative	



Component Title:

Executive Member:

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

anode connection, based on type TAJ

Date:

Page 4 Appl. No.

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29/02/2016

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)

Or PID-TFD

Tests vehicle identification/description:

See box 14 (5 references): 301200101 105CK	301200113 476JK 301200114 475TK	
301200102 225DK	301200117 336EK	

Detail Specification reference:

3012/001

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	15xx	12 x5	0	
1.7 m 1)	Adhesion	×	ESCC 3012, Para. 9.10	15xx	12 x5	0	
Environmental / Mechanical Subgroup (Column 1)	External Visual Inspection	×	ESCC 20500	15xx	12 x5	0	
Envir Me ubgrot	Permanence of Marking	⊠	ESCC 24800	15xx	12 x5	0	
S)	Climatic Sequence	⊠	ESCC 3012, Para. 9.13	15xx	12 x5	0	
0	Mounting	⋈	IEC 384-1	15xx	12 x5	0	
Rapid Change of Temperature Vibration Shock or Bump External Visual Inspection Permanence of Marking Climatic	Change of	⊠	IEC 68-2-14	15xx	12 x5	0	
	Vibration	×	IEC 68-2-6	15xx	12 x5	0	
	Shock or Bump	×	IEC 68-2-27 or IEC 68-2-29	15xx	12 x5	0	34.
	Visual	×	ESCC 20500	15xx	12 x5	0	
vironn	Permanence of Marking	×	ESCC 24800	15xx	12 x5	0	
ы	Climatic Sequence	×	ESCC 3012, Para. 9.13	15xx	12 x5	0	
	Mounting	×	IEC 384-1	15xx	36 x5	0	
Endurance Subgroup	Operating Life at T ₁ °C	×	ESCC 3012, Para. 9.17.2, T1=85C	15xx	36 x5	0	
	Electrical Measurements during Endurance Testing	×	ESCC 3012, Para. 9.4.5	15xx	36 x5	0	



Component title:

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

Executive Member:

29/02/2016

Appl. No. 196G

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	15xx	12 x5	0	
Electrical Subgroup (Electrical Measurements)	Electrical Measurements at Room Temperature	×	ESCC 3012, Para. 9.4.4	15xx	125 x5	0	
Electr (Mea	External Visual Inspection	×	ESCC 20500	15xx	125 x5	0	
ab.	Surge Voltage		ESCC 3012, Para. 9.15	15xx	12 x5	1	
Electrical Subgroup (Ass. / Capab. Tests)	Solderability	\boxtimes	IEC 68-2-20	15xx	12 x5	0	
nal	Operating Life at 125C		ESCC 3012, Para. 9.17.2	15xx	24 x5	0	Performed as part of chart IV
Additional	Damp Heat Steady State	×	ESCC 3012, Para. 9.16	15xx	12 x5	0	Performed as part of chart IV
4							



Box 22

Additional Comments.

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title:

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

Appl. No.

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Executive Member:

ESA

29/02/2016 Date:

196G

	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.