
		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1 Appl. No. 327A
Component Title: Capacitors, Leadless Surface Mounted, Tantalum, Solid electrolyte, Low equivalent series resistance based on type TES.		Executive Member: ESA		Date: 11/09/2015	
1					
Components (including series and families) submitted for Extension of Qualification Approval:					
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3012/004	01 A-G16	ESCC 3012/004 Table 1(a)	TES	See box 14	All other variants and values.
	02 B-G16	1uF-470uF, 6V -50V			
	03 C - P17				
	04 D-P17 05E-P17				
2		3		4	
Component Manufacturer AVX Czech Republic s.r.o.		Location of Manufacturing Plant(s) Dvorakova 328 Lanskroun Czech Republic		Date of original qualification approval: Date: 12/10/2013 Certificate Ref No. 327	
5		6		7	
ESCC Specifications used for Maintenance of qualification testing: Generic: 3012 Issue: 2 Detail(s): 3012/004 Issue: 3		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: Extension of Valid Qualification, Customer Information Package, 15 th September 2015, 2015_TES_327_requalification_final_report_v1.pdf	
8					
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	
See box 22					
9		10			
PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box: See box 19		Current PID Verified by: <u>ESA</u> Name of Executive Representative Ref No: PID100 Issue 2, PID 100/004 issue 4 Issue: _____ Date: 01/06/2015 Rev Date: 14/09/2015			
11					
Current Manufacturing facilities surveyed by: <u>ESA</u> on <u>23/06/2015</u> (Name of Executive Representative) (Date)					
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain All corrective actions from the audit have been closed out during a teleconference which took place on the 16/09/2015.					
Report Reference: <u>AVXLAN-AUD-2015-1</u>					

A10/10 - 301200401B106KA1800
B3,3/35 - 301200402B335KV1000
C33/20 - 301200403B336KD0300
D100/13 - 301200404K107KC0055
E470/6 - 301200405K477KJ0030

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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:



 Signature, ESA Representative



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

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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: described in box 14.

Detail Specification reference: 3012/004

Chart IV	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental / Mechanical Subgroup (Column 1)	Mounting	<input checked="" type="checkbox"/>	IEC 384-1	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	Adhesion	<input checked="" type="checkbox"/>	ESCC 3012, Para. 9.10	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 20500	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	Permanence of Marking	<input checked="" type="checkbox"/>	ESCC 24800	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	Climatic Sequence	<input checked="" type="checkbox"/>	ESCC 3012, Para. 9.13	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
Environmental / Mechanical Subgroup (Column 2)	Mounting	<input checked="" type="checkbox"/>	IEC 384-1	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	

Endurance Subgroup	Rapid Change of Temperature	☒	IEC 68-2-14	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	Vibration	☒	IEC 68-2-6	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	Shock or Bump	☒	IEC 68-2-27 or IEC 68-2-29	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	External Visual Inspection	☒	ESCC 20500	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	Permanence of Marking	☒	ESCC 24800	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	Climatic Sequence	☒	ESCC 3012, Para. 9.13	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	Mounting	☒	IEC 384-1	A, B, D case size 1115, C case size 1015, E case size 1315	36x5	0	
	Operating Life at 85 °C	☒	ESCC 3012, Para. 9.17.2	A, B, D case size 1115, C case size 1015, E case size 1315	36x5	0	
	Electrical Measurements during Endurance Testing	☒	ESCC 3012, Para. 9.4.5	A, B, D case size 1115, C case size 1015, E case size 1315	36x5	0	



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Chart IV	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	<input checked="" type="checkbox"/>	ESCC 3012, Para. 9.14	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	Electrical Measurements at Room Temperature	<input checked="" type="checkbox"/>	ESCC 3012, Para. 9.4.4	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 20500	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
Electrical Subgroup (Ass. / Capab. Tests)	Surge Voltage	<input checked="" type="checkbox"/>	ESCC 3012, Para. 9.15	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
	Solderability	<input checked="" type="checkbox"/>	IEC 68-2-20	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	
Additional Tests	Operating Life at 125°C	<input checked="" type="checkbox"/>	ESCC 3012, Para 9.17.2	A, B, D case size 1115, C case size 1015, E case size 1315	24x5	0	Performed as part of chart IV.
	Damp Heat Steady State	<input checked="" type="checkbox"/>	ESCC 3012, Para 9.16	A, B, D case size 1115, C case size 1015, E case size 1315	12x5	0	Performed as part of chart IV.
		<input type="checkbox"/>					



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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 15 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.