
		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1 Appl. No. 109P
Component Title: Capacitors, Fixed, Chip, Ceramic Dielectric, type I, based on types 0805, 1206, 1210, 1812, 2220		Executive Member: CNES		Date: 05/04/2019	
Components (including series and families) submitted for Extension of Qualification Approval: 1					
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3009 003 3009 004	03, 06	See box 14	0805 1210	3009003061301JC 3009004061501FE 3009004061002JC AN13CE0392KT5	
3009 005	03, 06		1812	3009005061502JE	Click here to enter text.
3009 006	03, 06		2220	3009006063302FE	Click here to enter text.
3009 022	03, 06		1206	3009022063921FE AN20CE0332KT2 AD20CE0272KT3	Click here to enter text.
Component Manufacturer TPC A division of AVX Corporation		Location of Manufacturing Plant(s) Avenue du Colonel Prat 21850 SAINT APOLLINAIRE – France		Date of original qualification approval: Date: 01/02/1983 Certificate Ref No. 109	
ESCC Specifications used for Maintenance of qualification testing: Generic: 3009 Issue: 2 / 3 Detail(s): 3009/003 Issue: 7 / 6 3009/004 3009/005 3009/006		Deviations to LVT testing and Detail Specification used: No <input type="checkbox"/> Yes <input checked="" 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: VoQ 2019 Certificate 109 (Type 1), 05/04/2019	
Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first) 8					
Project Name	Testing Level	LAT	Date code	Quantity Delivered	
AIRBUS (TESAT) TAS			April 2017 to March 2019	33 456 parts	
TTI A.BEHRNS (G)					
RUAG APC (UK)					
PID changes since start of qualification None <input checked="" type="checkbox"/> Minor* <input type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box:			Current PID Verified by: JP Bussenot Name of Executive Representative Ref No: 1G2 PID 100 18WQ Issue: 18 Date: 12/04/2019 Rev Date: 05/04/2018		
19			10		
Current Manufacturing facilities surveyed by: JP Bussenot (CNES) on 18/12/2018 (Name of Executive Representative) (Date)					
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain Status of actions appended to Application 109M					
Report Reference: 2018-0022759-CR					
11					

(1)	Variant 01 (AgPd) replaced in 2013 with variant 03 (AgPdPt) was removed from TPC PID revision 15
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B. Schade, Head of ESA Product Assurance
and Safety Department

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ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION 18

Tests conducted in compliance with:

- ESCC 3009 generic specification; Chart V (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

3009003061301JC – DC 1727 3009022063921FE – DC 1820	AN20CE0332KT2 – DC 1735 AD20CE0272KT3 – DC 1839
3009004061501FE – DC 1751 3009004061002JC – DC 1805 AN13CE0392KT5 – DC 1739	3009005061502JE – DC 1817 3009006063302FE – DC 1730, 1843

Detail Specification reference: 3009/003/004/005/006/022

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental / Mechanical Subgroup	Mounting	<input checked="" type="checkbox"/>	IEC 60384-1	1727	20	0	(a) 1206 / AN20CE0332J2L (T2) (b) 1206 / AD20CE0272J2L (T3)
				1820	20		
				1735 (a)	20		
				1839 (b)	20		
				1751	20		
				1805	20		
				1817	20		
				1730	20		
				1843	20		
	Rapid Change of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	1727	20	0	
				1820	20		
				1735 (a)	20		
				1839 (b)	20		
				1751	20		
				1805	20		
				1817	20		
				1730	20		
				1843	20		
	Steady State Humidity	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.2	1727	20	0	1 000 hours
				1820	20		
				1735 (a)	20		
				1839 (b)	20		
				1751	20		
				1805	20		
				1817	20		
				1730	20		
				1843	20		

	Visual Inspection	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.5	1727 1820 1735 (a) 1839 (b) 1751 1805 1817 1730 1843	20 20 20 20 20 20 20 20 20	0	
Endurance Subgroup	Mounting	<input checked="" type="checkbox"/>	IEC 60384-1	1727 1735 (a) 1751 1739 (c) 1805 1817 1730 1820 1839 (b) 1843	20 40 20 40 40 20 20 20 20 2 x 25	0	(c) 1210 / AN13CE0392J2K (T5)
	Operating Life	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.9	1727 1735 (a) 1751 1739 (c) 1805 1817 1730 1820 1839 (b) 1843	20 40 20 40 40 20 20 20 20 2 x 25	0	2 000 hours
	Electrical Measurements during Endurance Testing	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.9	1727 1735 (a) 1751 1739 (c) 1805 1817 1730 1820 1839 (b) 1843	20 40 20 40 40 20 20 20 20 2 x 25	0	
Electrical Subgroup (Elect. Meas.)	Mounting	<input type="checkbox"/>	IEC 60384-1				Option
	Temperature Coefficient (Type I)	<input checked="" type="checkbox"/>	ESCC 3009, Para. 8.10	1735 (a)	5	0	
	Temperature Characteristic (Type II)	<input type="checkbox"/>	ESCC 3009, Para. 8.10				Not Applicable
	Robustness of Terminations	<input checked="" type="checkbox"/>	ESCC 3009, Para 8.7	1735 (a) 1751 1817 1843	20 6 6 6	0	
Assembly Capability Subgroup	Solderability	<input checked="" type="checkbox"/>	IEC 60068-2-58 Test Td	1825	6	0	Customer LAT3
	Permanence of Marking	<input type="checkbox"/>	ESCC 24800				Not Applicable

Additional Tests	Insulation resistance at +125°C	<input checked="" type="checkbox"/>	ESCC 3009 Iss. 1 Para 9.4.1.3	1727 1730 1751 1817 1820 1843 1845	6 6 6 6 6 6 6	0	
		<input type="checkbox"/>					
		<input type="checkbox"/>					

