



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: **Capacitors Filters, PI/C/L-types, Feed through, based on types SFC30/35/40/60/100, SFL100, SFP35/40/60/100**
 Executive Member: CNES Date: 31/05/2016

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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
3008 014 3008 020 3008 021	01 to 40 01 to 12 01 to 14	See Box 14	SFP040 SFC030 SFP060	See details in Box 14 X	Values, Covered by ESCC Specifications 3008/014-020-021-025-026-027-028-029-030-031-032-033
3008 025 3008 026 3008 027	01 to 20 01 to 06 01 to 06		SFP035 SFC060 SFC100		
3008 028 3008 029 3008 030	01 to 06 01 to 48 01 to 28		SFP100 SFL100 SFP060		
3008 031 3008 032 3008 033	01 to 06 01 to 12 01 to 12		SFC035 SFC040 SFC060		

Component Manufacturer EXXELIA technologies	2	Location of Manufacturing Plant(s) 1, rue des Temps Modernes 77 600 CHANTELOUP en BRIE	3	Date of original qualification approval: Date: 01/08/1998 Certificate Ref No. 252	4
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ESCC Specifications used for Maintenance of qualification testing: Generic: 3008 Issue: 2 Detail(s): 3008/020 Issue: 3	5	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)	6	Qualification Extension Report reference and date: Test Report N° 14/0766, December 2014 Test Report N° 15/0239, May 2015	7
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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
Main Customers :	90% Level B	1 LAT1 & 1 LAT2	1416 to 1615	16 435 parts (See appendix, SFCMS35 are not ESCC qualified, EM not included)
Thalès Alenia Space France				
TESAT Spacecom				

PID changes since start of qualification None <input checked="" type="checkbox"/> Minor* <input type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box:	9	Current PID Verified by: <u>CNES</u> Name of Executive Representative Ref No: 505.95.390 (generic) & Box 14 Issue: H Date: 23/07/2014 Rev Date: 01/05/2014	10
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Current Manufacturing facilities surveyed by: <u>CNES</u> on <u>18/09/2009</u> (Name of Executive Representative) (Date)	11
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain: CNES line visit after transfer from Lagny to Chanteloup	
Report Reference: <u>DCT/AQ/CQ 2009-21512, 21/09/2009</u>	



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Failure Analysis, DPA, NCCS available: Yes No (Supply data) NCCS 2CETE602, 2CETE603

Ref. No's and purposes: 2CETE602: Mistakes in dimensions per ETE detail specification 478.93.390 reproduced in all ESCC detail specifications 2CETE603: Mistake in lead material implementation in ERP in 2008 resulted in using Brass (CuZn30Pb2) instead of Copper

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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 CNES as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date: 31/05/2016

JP. BUSSENOT

(Signature of the Executive Coordinator)

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Continuation of Boxes above:

Component Title : Capacitors Filters, PI-type, C-type, L-type, Feedthrough, Electromagnetic Interference Suppression, Hermetically Sealed & Non-hermetically Sealed, based on types SFC030, SFC035, SFC040, SFC060, SFC100, SFL100, SFP035, SFP040, SFP060, SFP100

Box 1 : Test Vehicles :

RA.0501.106.86B - SFC 030 3682 SR 100 D date code 1427 - TESAT Detail Specification, Level B2 3008 020 01B 122MC - SFC 030 3122 SV 050 HT date code 1510 - Level B1

Box 10 : PID

Generic PID for Filters 505.95.390 issue H.

Generic PID for Filters is supplemented with sub-PID covering various sub-families :

Domain	PID	Filters types	ESCC Detail Specification
SFC mixed obturation and for soldering	454.92.390 issue E	SFC 030 SV	3008/020
SFC non hermetic (resin obturated)	506.95.390 issue D	SFC 035	3008/031
		SFC 040	3008/032
		SFC 060	3008/033
SFC hermetic (glass obturated)	507.95.390 issue D	SFC 060	3008/026
		SFC 100	3008/027
SFP non hermetic (resin obturated)	457.92.390 issue E	SFP 035	3008/025
		SFP 040	3008/014
		SFP 060	3008/030
SFP hermetic (glass obturated)	463.92.390 issue E	SFP 060	3008/021
		SFP 100	3008/028
SFL hermetic (glass obturated)	462.92.390 issue D	SFL 100	3008/029

PID T.B.C. 480.93.390 issue D, December 2015 is the updated PID for Ceramic Capacitors used in Filters

12. MRBS HELD IN JUNE FOUND NO TECHNICAL RISK IN PERFORMANCE OR RELIABILITY IN RELATION TO THESE NCCS.



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Non compliance to ESCC requirements:

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No.:	Specification	Paragraph	Non compliance
			None

Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:

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Executive Manager Disposition

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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 3008 generic specification; Chart V (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

SFC 030 3682 SR 100 D date code 1427	
SFC 030 3122 SV 050 HT date code 1510	

Detail Specification reference: RA.0501.106.10 & 3008/020

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental / Mechanical Subgroup (Column 1)	Shock	<input checked="" type="checkbox"/>	IEC 68-2-27	1510	6	0	
	Vibration	<input checked="" type="checkbox"/>	IEC 68-2-6	1510	6	0	
	Seal Test (Hermetic)	<input type="checkbox"/>	IEC 68-2-17				Applicable to Hemetic types only
	Damp Heat (Non-Hermetic)	<input checked="" type="checkbox"/>	ESCC 3008, Para. 9.24	1510	6	0	
	Corrosion Test	<input checked="" type="checkbox"/>	IEC 68-2-11	1510	6	0	
Environmental / Mechanical Subgroup (Column 2)	Low Air Pressure	<input checked="" type="checkbox"/>	IEC 68-2-13	1510	6	0	
	Immersion	<input type="checkbox"/>	ESCC 3008, Para. 9.15				Not Applicable to ESCC 3008/020
	Seal Test (Hermetic)	<input type="checkbox"/>	IEC 68-2-17				
	Damp Heat (Non-Hermetic)	<input checked="" type="checkbox"/>	ESCC 3008, Para. 9.24	1510	6	0	
Endurance Subgroup	Operating Life	<input checked="" type="checkbox"/>	ESCC 3008, Para. 9.19	1427 1510	20 20	0	
	Electrical Measurements during Endurance Testing	<input checked="" type="checkbox"/>	ESCC 3008, Para. 9.4.5	1427 1510	20 20	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 20500	1427 1510	20 20	0	
	Seal Test (Hermetic)	<input type="checkbox"/>	IEC 68-2-17				
	Damp Heat (Non-Hermetic)	<input checked="" type="checkbox"/>	ESCC 3008, Para. 9.24	1427 1510	20 20	0	
Electrical Subgroup (Elect. Meas.)	Electrical Measurements at Room Temperature	<input checked="" type="checkbox"/>	ESCC 3008, Para. 9.4.4	1427 1510	6 6	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 20500	1427 1510	6 6	0	
Electrical Subgroup (Ass. / Capab. Tests)	Solderability	<input checked="" type="checkbox"/>	IEC 68-2-20	1427 1510	4 4	0	
	Permanence of Marking	<input type="checkbox"/>	ESCC 24800	1510	4	0	NA to TESAT Specification
	Robustness of Terminations	<input checked="" type="checkbox"/>	IEC 68-2-21	1427 1510	4 4	0	



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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
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					