			APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL								Page 1	
E	SCC		Component Title:	Capac	citors Filters,	C-type,	Feed t	hrough	, based on types SFC30		Appl. No	).
			Executive Member: CNES Date:					Pate: 06/02/2024		375A		
Components (include	ling series and famil	ies) s	submitted for Exten	nsion of Qu	ualification /	Approva	l:					1
ESCC COMPONENT NO.	VARIANTS		RANGE OF COMPONENTS						TEST VEHICLE / S		COMPONE	
3008 020 01 02 04 05			See box 14	SFC 030 SV			300802005682ME 300802005222ME					
			İ							į		
Component Manufacturer 2 EXXELIA SAS			1, rue des Temps Modernes 77600 CHANTELOUP EN BRIE					of original qualification app : 27/07/2021 ficate Ref No. 375	oroval:		4	
ESCC Specification Maintenance of qua		5	Deviations to LVT testing and Detail Specification Qualification Extension Report reference and date:							7		
Generic: 3008  Detail(s): 3008/0  *additional tests performed	Issue: 3 20 * Issue: 3 as described in annex 2 box	c 21	No ⊠ Ye  Deviation from o  No ⊠ Ye	current Sp	(supply di 15) ecifications: (Supply d		Box	SFC SFC SFC SFC SFC SFC	030 3 222 SV 100V MG31 030 3 222 SV 100V MG31	320100 320100 320110 320120 320120 321010 321010 321020	00495 201334 00881 201234 00382 201237 00151 210053 00261 210049 00085 210176 00086 210192	4 i.B 4 i.B 7 i.B 3 i.B 9 i.B 6 i.B 2 i.B 7 i.B
			- u	-1 1: 4:4			41-1	_!!!!	- 45 to FCCC listed fire			8
Project Name	Testing Le		LAT			Date cod		plicatio	on (those to ESCC listed firs Quantity D		d	
RAKON France ASTRA MICROWAY PRODUCTS TAS France TAS Spain	/E							235	2929			
PID changes since s	start of qualification			9 Cu	rrent PID V	erified b	y:		JP Bussenot, CN	ES	[	10
None ⊠								N	ame of Excutive Represent	tative		
Minor* □ Major* □	*Provide details in					Date:	02	2/06/2021				
-				Re	v Date: 0	1/07/20	21					11
Current Manufacturi	ng facilities surveye	d by:	D. Laco	mbe, ESA	& L. Fonta	aine, CN	IES	on	13/1	10/2023		
			1)	Name of E	xecutive Re	presenta	ative)		(C	Date)		
Satisfactory:	Yes ⊠		No 🗆	Explain								
Report Reference:	2023.0016237 EXXELIA Chan											

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Component title:

Capacitors Filters, C-type, Feed through, based on types SFC30

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Executive Member:

CNES

No

Date: 06/02/2024

Failure Analysis, DPA, NCCS available:

Yes

 $\boxtimes$ 

(Supply data)

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Ref. No's and purposes:

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:

07/02/2024

Gianandrea Quadri G. QUADRI, CNES

(Signature of the Executive Coordinator)

Continuation of Boxes above:

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#### Range of components:

Type Variant	Rated DC Voltage U <sub>R</sub> (V) (at Tamb ≤ +85°C)	Range of Capacitance Values C (pF) E6 Series Tolerance ±20%	Voltage Proof V <sub>P</sub> (V)	Voltage Drop V <sub>dr</sub> (V)	DC Resistance R <sub>s</sub> (mΩ)	Rated Current I <sub>R</sub> (A)
01	50	470 to 22000	125	0.05	5	5
02	100	470 to 6800	250	0.05	5	5
04	50	470 to 22000	125	0.05	5	5
05	100	470 to 6800	250	0.05	5	5

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6534	200		L
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Component title:

Capacitors Filters, C-type, Feed through, based on types SFC30

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Executive Member: CNES Date: 06/02/2024				Date: 06/02/2024	375A
Non comp	pliance to ESCC_requirements:		W. H FT.		15
No.:	Specification		Paragraph	Non complianc	е
				.,	
Additional	tasks required to achieve full con	mpliance for F	ESCC qualification or rationale for acceptabilit	v of	
noncompl	iance:	.,,		,	16
					4
					=
					F
				<u> </u>	
	Manager Disposition				17
Application Action / Re	54.5 (80°s)	<b>√o</b> □			
				3. D1	
Date:				B. Schade: Head of the Production and Safety Department	t Assurance



Component Title:

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

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:

S FC 030 3 682 SV 100V (ESCC 300802005682ME) DC 2107 S FC 030 3 222 SV 100V (ESCC 300802005222ME) DC 2112 S FC 030 3 222 SV 100V (ESCC 300802005222ME) DC 2107 S FC 030 3 222 SV 100V (ESCC 300802005222ME) DC 2105 S FC 030 3 222 SV 100V (ESCC 300802005222ME) DC 2117 S FC 030 3 222 SV 100V (ESCC 300802005222ME) DC 2114 S FC 030 3 222 SV 100V (ESCC 300802005222ME) DC 2114 S FC 030 3 222 SV 100V (ESCC 300802005222ME) DC 2123 S FC 030 3 222 SV 100V (ESCC 300802005222ME) DC 2123 S FC 030 3 222 SV 100V (ESCC 300802005222ME) DC 2123 S FC 030 3 222 SV 100V (ESCC 300802005222ME) DC 2136 S FC 030 3 222 SV 100V (ESCC 300802005222ME) DC 21315 Datiil Spanifestian reference

Detail Specification reference:

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
_	Shock	$\boxtimes$	IEC 68-2-27	2315	12	0	
Environmental / Mechanical Subgroup (Column 1)	Vibration		IEC 68-2-6	2315	12	0	
char	Damp Heat	$\boxtimes$	ESCC 3008, Para. 9.24	2315	12	0	
Envi	External Visual Inspection		ESCC 20500	2315	12	0	
Environ mental / Mechani cal	Low Air Pressure	$\boxtimes$	IEC 68-2-13	2315	12	0	
men Mec	Damp Heat	$\boxtimes$	ESCC 3008, Para. 9.24	2315	12	0	
Endurance Subgroup	Operating Life	⊠	ESCC 3008, Para. 9.19	2315 2107 2112 2107 2105 2117 2122 2123 2116	20 20 20 20 20 20 20 20 20 20	0	
	Electrical Measurements during Endurance Testing	⊠	ESCC 3008, Para. 9.4.5	2315 2107 2112 2107 2105 2117 2122 2123 2116	20 20 20 20 20 20 20 20 20 20	0	
	External Visual Inspection	×	ESCC 20500	2315 2107 2112 2107 2105 2117 2122 2123 2116	20 20 20 20 20 20 20 20 20 20	0	

	Damp Heat	×	ESCC 3008, Para. 9.24	2315 2107 2112 2107 2105 2117 2122 2123 2116	20 20 20 20 20 20 20 20 20 20 20	0	
Electrical Subgroup (Elect. Meas.)	Electrical Measurements at Room Temperature	×	ESCC 3008, Para. 9.4.4	2315 2107 2112 2107 2105 2117 2122 2123 2116	6 4 4 4 4 4 4 4	0	
	External Visual Inspection	×	ESCC 20500	2315 2107 2112 2107 2105 2117 2122 2123 2116	6 4 4 4 4 4 4 4	0	
ests)	Solderability	×	IEC 68-2-20	2315 2107 2112 2107 2105 2117 2122 2123 2116	6 4 4 4 4 4 4 4	0	
Dab. T	Permanence of Marking		ESCC 24800				NA
Electrical Subgroup (Ass. / Capab. Tests)	Robustness of Terminations	×	IEC 68-2-21	2315 2107 2112 2107 2105 2117 2122 2123 2116	6 4 4 4 4 4 4 4	0	
	External Visual Inspection	×	ESCC 20500	2315 2107 2112 2107 2105 2117 2122 2123 2116	6 4 4 4 4 4 4 4	0	



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# NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

CNES

ENTRIES	shall indicate: - the title of the component as given in its detail specification or the name of the series, family; - the Executive Member;
Form heading	- 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.
Box 22	Additional Comments.