



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: INDUCTORS, FIXED, RF, MINIATURE, MOULDED, SURFACE MOUNT, BASED ON SERIES MSC1 10k, 12k, 20k and H01
 Executive Member: CNES Date: 26/11/2024

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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
3201 008 01B 3201 008 02B 3201 008 03B 3201 008 04B 3201 008 05B	01 02 03 04 05	See ESCC 3201/008	Series 10K and 12K Series 20K and HO1	320100801 102K, 320100802 L039K, 320100802 L10K, 320100802 1L0K, 320100802 100K, 320100802 120K, 320100802 101K, 320100803 331K, 320100804 L068K, 320100804 L10K, 320100804 1L0K, 320100804 101K, 320100804 221K, 320100805 101L	All other values in the range

Component Manufacturer Exxelia SAS	2	Location of Manufacturing Plant(s) 13, Parc d'activités du Beau Vallon, 57110 Illange	3	F-	Date of original qualification approval: Date: 01/04/1997 Certificate Ref No. 241	4
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ESCC Specifications used for Maintenance of qualification testing: Generic: 3201 Issue: 7 Detail(s): 3201/008 Issue: 8	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: PV24-10-23J VOQ MSC1 10/2024	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
Livraisons MSC1 DC 22-24 à 24-39.pdf				

PID changes since start of qualification None <input type="checkbox"/> Minor* <input type="checkbox"/> Major* <input checked="" type="checkbox"/> *Provide details in box: 19	9	Current PID Verified by: <u>Javier Morales , CNES</u> Name of Executive Representative Ref No: PID N°41 Issue 4 RevE MSC1 Issue: 4E Date: 06/12/2002 Rev Date: 23/10/2024	10
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Current Manufacturing facilities surveyed by: <u>CNES and ESA</u> on <u>20/07/2023</u> (Name of Executive Representative) (Date)	11
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain	
Report Reference: <u>2023.0011698_ESCC Audit Report EXXELIA MAGNETICS</u>	



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

Ref. No's and purposes: 2CEXX402: The due date for the renewal of the VOQ exercise in June 2024 must be delayed till end of October 2024 (Certificate n°241L, valid until June 2024) - Closed

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

Date: 26/11/2024

L. FONTAINE,CNES
(Signature of the Executive Coordinator)

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Continuation of Boxes above:

Signature numérique
de Fontaine Lya-Cnes
Date : 2024.11.26
10:56:59 +01'00'



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Non compliance to ESCC requirements:

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No.:	Specification	Paragraph	Non compliance

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:

B. Schade: Head of the Quality Department



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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 3201 generic specification; Chart V (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

320100801 102K 2424 ,
 320100802 L039K 2327,
 320100802 L10K 2421,
 320100802 1L0K 2421,
 320100802 100K 2421,
 320100802 120K 2421,
 320100802 101K 2421,
 320100803 331K 2424,
 320100804 L068K 2318,
 320100804 L10K 2419,
 320100804 1L0K 2419,
 320100804 101K 2419,
 320100804 221K 2318,
 320100805 101L 2406

Detail Specification reference:
 3201/008 Issue 8

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental / Mechanical Subgroup (Column 2)	Shock (Specified Pulse)	<input type="checkbox"/>	ESCC 3201, Para 8.10	-	-	-	N/A (per 3201/008 2.1.1.1 (a))
	Vibration	<input type="checkbox"/>	ESCC 3201, Para 8.11	-	-	-	N/A (per 3201/008 2.1.1.1 (b))
	Immersion	<input type="checkbox"/>	ESCC 3201, Para 8.12	-	-	-	N/A (per 3201/008 2.1.1.1 (c))
	Moisture Resistance	<input checked="" type="checkbox"/>	ESCC 3201, Para 8.13	2424 2327 2421 2421 2421 2421 2421 2424 2318 2419 2419 2419 2318 2406	2 2 2 2 2 2 2 2 2 2 2 2 2 2	0	No polarising voltage applied per 3201/008 2.1.1.1 (d)
Environmental / Mechanical Subgroup (Column 1)	Thermal Shock	<input checked="" type="checkbox"/>	ESCC 3201, Para 8.2	2424 2327 2421 2421 2421 2421 2421 2424 2318 2419 2419 2419 2318 2406	2 2 2 2 2 2 2 2 2 2 2 2 2 2	0	
	Barometric Pressure	<input checked="" type="checkbox"/>	ESCC 3201, Para 8.6	2424 2327 2421 2421	2 2 2 2	0	

				2421	2		
				2421	2		
				2421	2		
				2424	2		
				2318	2		
				2419	2		
				2419	2		
			2419	2			
			2318	2			
			2318	2			
			2406	2			
	Temperature Rise	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.7	2424	2	0	
				2327	2		
				2421	2		
				2421	2		
				2421	2		
				2421	2		
				2421	2		
				2424	2		
				2318	2		
				2419	2		
				2419	2		
				2419	2		
				2318	2		
				2406	2		
	Overload	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.8	2424	2	0	
				2327	2		
				2421	2		
				2421	2		
				2421	2		
				2421	2		
				2421	2		
				2421	2		
				2424	2		
				2318	2		
				2419	2		
				2419	2		
				2419	2		
				2318	2		
				2406	2		
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.9	2424	2	0	
				2327	2		
				2421	2		
				2421	2		
				2421	2		
				2421	2		
				2421	2		
				2424	2		
				2318	2		
				2419	2		
				2419	2		
				2419	2		
				2318	2		
				2406	2		
Endurance Subgroup	Operating Life	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.14	2424	3	0	No load shall be applied per 3201/008 2.1.1.1 (e)
				2327	3		
				2421	3		
				2421	3		
				2421	3		
				2421	3		
				2421	3		
				2424	3		
				2318	3		
				2419	3		
				2419	3		
				2419	3		
				2318	3		
				2406	3		
	Permanence of Marking	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.15	2424	3	0	
				2327	3		
				2421	3		
				2421	3		
				2421	3		
				2421	3		
				2421	3		
				2424	3		



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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 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.