



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: 18/01/2023

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Components (including series and families) submitted for Extension of Qualification Approval:

Table with 6 columns: ESCC COMPONENT NO., VARIANTS, RANGE OF COMPONENTS, BASED ON, TEST VEHICLE / S, COMPONENT SIMILAR. Row 1 contains component numbers 3201 008 01B-05B, variants 01-05, range 'See ESCC 3201/008', based on 'Series 10K and 12K, Series 20K and H01', test vehicles, and 'All other values in the range'.

Table with 4 columns: Component Manufacturer (Exxelia SAS), Location of Manufacturing Plant(s) (13, Parc d'activités du Beau Vallon, F-57110 Illange), Date of original qualification approval (01/04/1997), Certificate Ref No. (241).

Table with 3 columns: ESCC Specifications used for Maintenance of qualification testing (Generic: 3201 Issue: 7, Detail(s): 3201/008 Issue: 8), Deviations to LVT testing and Detail Specification used (No [x] Yes []), Qualification Extension Report reference and date (PV22-06-20J VOQ MSC1 06/2022).

Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)

Table with 5 columns: Project Name, Testing Level, LAT, Date code, Quantity Delivered. Row 1: Livraisons MSC1 DC 20-23 à 22-23.pdf.

Table with 2 columns: PID changes since start of qualification (None [], Minor* [x], Major* []), Current PID Verified by (L. Fontaine, CNES), Name of Executive Representative, Ref No (PID n°41 Issue 4D Rev C MSC1 inductors), Issue (4D), Date (06/12/2002), Rev Date (05/10/2022).

Table with 1 column: Current Manufacturing facilities surveyed by (L. Fontaine, CNES on 29/09/2022), Satisfactory (Yes [x] No [] Explain), Report Reference (2022.0014771).



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

Ref. No's and purposes: 1CEXX201 : Electrical circuit open, detected by users after mounting of the components : there is a lack of contact of the input or output wire of the coils (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 of CNES as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date: 18/01/2023


G. QUADRI
(Signature of the Executive Coordinator)

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Continuation of Boxes above:

Box 12 :

1CEXX201 : Electrical circuit open, detected by users after mounting of the components : there is a lack of contact of the input or output wire of the coils : the low occurrences rate is low (6 fails on 95000 parts) and the corrective actions put in place; CLOSED

8D report AQ 216 171 ind. 6

Corrective actions were implemented and produced satisfactory results



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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 Product Assurance and Safety 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 100K Date Code 2212	320100804 102K Date Code 2144
320100802 L027K Date Code 2138	320100804 7L1L Date Code 2130
320100802 1L5K Date Code 2135	
320100802 220K Date Code 2212	
320100803 2L2K Date Code 2212	
320100804 221K Date Code 2212	

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	2212 2138 2135 2212 2212 2212 2144 2130	2 2 2 2 2 2 2 2	0	
Environmental / Mechanical Subgroup (Column 1)	Thermal Shock	<input checked="" type="checkbox"/>	ESCC 3201, Para 8.2	2212 2138 2135 2212 2212 2212 2144 2130	2 2 2 2 2 2 2 2	0	
	Barometric Pressure	<input checked="" type="checkbox"/>	ESCC 3201, Para 8.6	2212 2138 2135 2212 2212 2212 2144 2130	2 2 2 2 2 2 2 2	0	
	Temperature Rise	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.7	2212 2138 2135 2212 2212 2212 2144 2130	2 2 2 2 2 2 2 2	0	

	Overload	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.8	2212 2138 2135 2212 2212 2144 2130	2 2 2 2 2 2 2	0	
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.9	2212 2138 2135 2212 2212 2144 2130	2 2 2 2 2 2 2	0	
Endurance Subgroup	Operating Life	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.14	2212 2138 2135 2212 2212 2212 2144 2130	3 3 3 3 3 3 3 3	0	
	Permanence of Marking	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.15	2212 2138 2135 2212 2212 2144 2130	3 3 3 3 3 3 3	0	
Assembly Capability Subgroup	Solderability	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.16	2212 2138 2135 2212 2212 2212 2144 2130	1 1 1 1 1 1 1 1	0	
	Terminal Strength	<input checked="" type="checkbox"/>	ESCC 3201, Para. 8.17	2212 2138 2135 2212 2212 2144 2130	1 1 1 1 1 1 1	0	



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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.