

#### APPLICATION FOR EXTENSION OF ESCC TECHNOLOGY FLOW QUALIFICATION

Component Title: Molded SMD Custom Magnetics Components, Linear (CCM Winding

Page 1 Appl. No.

Technology) Executive Member: CNES 22/05/2025 Date: 356C Technology Flow submitted for qualification Summary Description of **Detailed Technology BASED** Test Components Proposed for Qualification Technology flow Flow Description No. On Technology Structures These SMD inductors, CCM4, CCM5, 3201 011 var. 01 to 05 The Technology Flow CCM (Types 4, 5, 6, 20 and 25) covers custom magnetic components at Exxelia, chokes and CCM6, CCM20, transformers use CCM25 Illange, France. See more information in "QML linear winding (CCM technology)
assembled on a lead CCM.pdf" frame and molded with epoxy resin. Component Manufacturer 2 Location of Manufacturing Plant 3 ESCC Specification used for Qualification 4 Exxelia SAS 13, Parc d'activités du Beau Vallon, Generic: 3201 Issue 7 F-57110 Illange Detail/s: 3201/011 issue 2 Qualification Report Reference and date: PID used for manufacturing Qualification Lot 6 PV25-02-14 VOQ CCM25.pdf PID 101 Ref No: 01/02/2025 Date: Issue: Issue 5 rev 1 Date: 01/09/2023 PID changes since Original Qualification or last extension Current PID Verified by: **CNES** 8 of Qualification. None Name of Executive Representative Ref No: PID 101 Minor Major  $\boxtimes$ See box 22 Issue: Issue 6 Date: 06/03/2025 9 **CNES** Current Manufacturing facilities surveyed by: 09/07/2023 on (Name of Executive Responsible) (Date) Satisfactory: Yes  $\boxtimes$ No Corrective Actions closed out Yes  $\boxtimes$ No N/A Quality and Reliability Data 10 Evaluation testing performed Yes No  $\boxtimes$ Failure analysis, DPA, NCCS Yes No  $\boxtimes$ available Report Ref. No.: Date: (supply data) Equivalent Data: Ref. Nos. and purpose: NCCS 2CEXX302 : see box 22 Certification:



#### APPLICATION FOR ESCC TECHNOLOGY FLOW QUALIFICATION

Component Title: Molded SMD Custom Magnetics Components, Toroidal (TO) or Linear

(CCM Winding Technology)

Executive Member: CNES Date: 22/05/2025

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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: 22/05/2024

Fontai Signature numérique de Fontaine Lya

L. FONTAINE

(Signature of the Executive Coordinator)

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## APPLICATION FOR ESCC TECHNOLOGY FLOW QUALIFICATION

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Non complianc	e to ESCC_requirements:			13
No.:	Specification	Paragraph	Non compliance	
Additional task noncompliance	s required to achieve full complia :	ance for ESCC qualification or rationale for acceptability	y of	14
Т				
Executive Man	ager Disposition			15
Application Application / Remark			Ali ZaSh	
Date: 26/06/202	25		Signature, ESA Representative A. Zadeh: Head of the Avionics and	=== e EEE Division



## APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Molded SMD Custom Magnetics Components, Toroidal (TO) or Linear (CCM Winding Technology) Component Title:

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ANNEX: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION

Tests conducted in compliance with:

ESCC 3201 generic specification; Chart F4 (for ESCC/QPL parts); Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

ESCC 320101101EXJ449A DC2435	ESCC 320101102EXJ224A DC2436	ESCC 320101103EXJ506A DC2416
ESCC 320101104EXJ094A DC2326	ESCC 320101104EXJ228A DC2436	ESCC 320101105EXJ259A DC2437
ESCC 320101105EXJ230A DC2436		

Detail Specification reference: ESCC 3201/011

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
nical Subgroup 1)	Mechanical Shock		MIL-STD-202	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	
	Vibration	$\boxtimes$	MIL-STD-202	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	
I / Mechanic (Column 1)	Immersion		MIL-STD-202				N/A (See Para 2.1.1.1 of ESCC 3201/011
Environmental / Mechanical Subgroup (Column 1)	Moisture resistance		ESCC 3201, Para 8.13	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	
	External Visual Inspection		ESCC 20500	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	
umn 2)	Thermal Shock		MIL-STD-202	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	
o) dr	Barometric Pressure		MIL-STD-202				N/A (See Para 2.1.1.1 of ESCC 3201/011
Environmental / Mechanical Subgroup (Column 2)	Temperature Rise		ESCC 3201, Para. 8.7	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	
mental / Mech	Overload		ESCC 3201, Para. 8.8	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	
Environr	Resistance to Soldering Heat		ESCC 3201, Para. 8.9	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	
Endurance Subgroup	Operating Life	$\boxtimes$	ESCC 3201, Para. 8.14	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	
	Electrical Measurements during Endurance Testing	$\boxtimes$	ESCC 3201, Para. 8.3	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	

	External Visual Inspection		ESCC 20500	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	
	Permanence of Marking		ESCC 24800	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	N/A Laser marking
Capability	Solderability	$\boxtimes$	ESCC 3201, Para. 8.16	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	
Assemby / Capability Subgroup	Terminal Strength		ESCC 3201, Para. 8.17	2435 2436 2416 2326 2437	2 2+2+2 2 2 2	0	

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

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 Sue and the very device their etitle and ESCC code or the specific characteristic capable or consisting the component tested (e.g., voltage of col for a relay); - under component details on the specific characteristic capable or college of cold for a relay); - under component details or the specific characteristic capable or college of cold for a relay); - under component details and the specification of the capacity of the specification (e.g., voltage).  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 6, in particular deviations from testing, in case of deviations this manutal testical to Box 16 in case the referenced specification in Box 6 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	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.
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