		<b>APPLICATION FOR ESCC TECHNOLOGY FLOW QUALIFICATION EXTENSION</b>			Page 1
		Component Title:	Custom Magnetics (Inductors, Chokes and Transformers)		Appl. No.
Executive Member:		ESCC / ESA	Date:	10/05/2026	364C
Technology Flow submitted for qualification					1
Summary Description of Technology flow	Detailed Technology Flow Description No.	BASED On Technology	Test Structures	Components Proposed for Qualification	
The Technology Flow covers custom magnetic components at Flux/SA for the domain as described in FT08699015-9, PID and QML document.	It includes customized inductors, chokes and transformers. Combined Magnetics family (sub-assemblies) are not included into the domain.	Inductors, chokes and transformers.	Air coils	Various topologies covering the domain. List included into the test report FT08699053-1 and into the PID. Summary provided into box 12.	
Component Manufacturer		Location of Manufacturing Plant		ESCC Specification used for Qualification	
Flux A/S		Industrivangen 5 4550 Asnaes Denmark		Generic: ESCC3201 issue 7  Detail/s: ESCC3201/013 issue 4	
Qualification Report Reference and date:			PID used for manufacturing Qualification Lot		
FT08699053-1			Ref No: FT088699015		
Date: 10/04/2026			Issue: 9		
			Date: 24/06/2025		
PID changes since Original Qualification or last extension of Qualification.			Current PID Verified by: <u>ESA</u>		
None <input checked="" type="checkbox"/>			Name of Executive Representative		
Minor* <input type="checkbox"/>			Ref No: FT088699015		
Major* <input type="checkbox"/>			Issue: 9		
			Date: 24/06/204		
Current Manufacturing facilities surveyed by: <u>ESA</u> on <u>04/06/2024</u>					9
(Name of Executive Responsible Agency) (Date)					
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Corrective Actions closed out Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>					
Report: FLU-AUD-2024					
Quality and Reliability Data				10	
Evaluation testing performed Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				Failure analysis, DPA, NCCS available Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Ref. No.:				CA on 5 different topologies	
Date:				Reports CA0004175 and CA CA0004176.	
Equivalent Data: Design, Manufacturing and test heritage for space				Flux CA reply: report 08699023	



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

Date: **Denis Lacombe**

Digitally signed by Denis Lacombe  
Date: 2026.05.29 13:09:23 +02'00'

\_\_\_\_\_  
(Signature of the Executive Coordinator)

Continuation of Boxes above:

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Test vehicles:

Evaluation Sample	Flux Part No	Description	Quantity
Q1	12009014-1-C	EP5 2K Coupled Inductor	5
Q2 (pending)	14790302-1-C	EFD12 SMD Current Sense	5
Q3	14391017-1-B	I3M 21.1 x 32 x 24	5
Q4	12000096-1-B	Amobead 3-2-3W	5
Q5	14809024-1-C	RF Transformer	5
Q6	14229012-1-C	1:20 HV TRSF	5
Q8	14121040-1-C	20W 63V Transformer	5
Q9	12385000-1-C	100µH 20A	5
Q10	14179033-1-C	Flyback Transformer	5
Q11	12251055-1-B	Power Inductor	5
Q12	12141076-3-B	Input Inductor	5
Q13	12311081-1-B	Super Buck Inductor	5
Q14	12011041-1-B	APR Aux Input Filter Inductor	5
Q15	14110319-1-B	BCR Gate Drive Transformer	5
Q16	14170338-2-B	FEE DIG Aux Supply Transformer	5
Q17	14220171-1-B	Aux Supply Transformer	5
Q18	12180007-2-C	5µH Inductor with Slave winding	5
Q19	12011018-*-C	Choke 10 Turns	5
Q20	14110308-1-C	Transformer	5
Q21 (pending)	14230080-2-C	Transformer	5
Q22	14890203-1-B	Flux SMT Gate Transformer	5
Q23	12248004-1-B	Inductor	5
Q24	14241039-1-P	EQ30 Transformer	5
Q25	12411058-1-P	Inductor	5
Q26	12411057-1-P	Inductor	5
Q27	12141123-1-P	Inductor	5
Q28	12011044-1-P	Inductor	5
Q29	12939014-1-C	Flux SMT E22L Inductor Serie	5
Q30	19210136-1-B	CMGE RM10 Assembly	5

Q31 (pending)	14110323-1-B	Impregnated with (CV10-2500)	5
Q32 (pending)	14110323-1-B	Impregnated with (CV10-2500)	5

Qualification testing performed:

Group and Test		Sample					Method (Para)	Requirement (Para)
		1	2	3	4	5		
Environmental/Mechanical Groups.	Electrical characteristics	✓	✓				5.7.1	5.7.2
	Mechanical Shock	✓	✓				5.10.1	5.10.2
	Vibration (random)	✓	✓				5.9.1	5.9.2
	Moisture Resistance	✓	✓				5.15.1	5.15.2
	Electrical characteristics	✓	✓				5.7.1	5.7.2
	Thermal Shock	✓	✓				5.17.1	5.17.2
	Partial Discharge (Hi Power Transformer only)	✓	✓				5.13.1	5.13.2
	Temperature Rise (selected units)	✓					5.18	
	Overload	✓	✓				5.16.1	5.16.1
	Induced Voltage	✓	✓				5.5.1	5.5.2
	Dielectric Withstanding Voltage (at	✓	✓				5.6.1	5.6.2
	Electrical characteristics	✓	✓				5.7.1	5.7.2
	Visual Inspection	✓	✓				5.2.2.1	5.2.2.2
	Resistance to soldering heat	✓	✓				5.3.1	5.3.2
	DPA	✓					5.14.1	5.14.2
Endurance	Life			✓	✓	✓	5.11.1	5.11.2
	Permanence of Marking			✓	✓	✓	5.8.1	5.8.2
	Electrical characteristics			✓	✓	✓	5.7.1	5.7.2
	Visual Inspection			✓	✓	✓	5.2.2.1	5.2.2.2
Assembly	Solderability					✓	5.3.1	5.3.2
	Terminal Strength					✓	5.4.1	5.4.2
	Visual Inspection					✓	5.2.2.1	5.2.2.2
Sample Size = 5							Failures Allowed = 0	



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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:

N/A

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Executive Manager Disposition

Application Approval: Yes  No

Action / Remarks:

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Date: 29/05/2026

  
A.Zadeh Head of the Avionics and EEE Division