



ACCEDE | ESCCON

2025

Seville - Spain
25 to 27th March

ALTER



Next level
magnetics for power solutions.

History

- Alcatel Space Denmark
- Flux A/S 1980-2001-2015-
- AQAP 110
- MIL-STD-981/MIL-PRF-27
- Pioneering methods



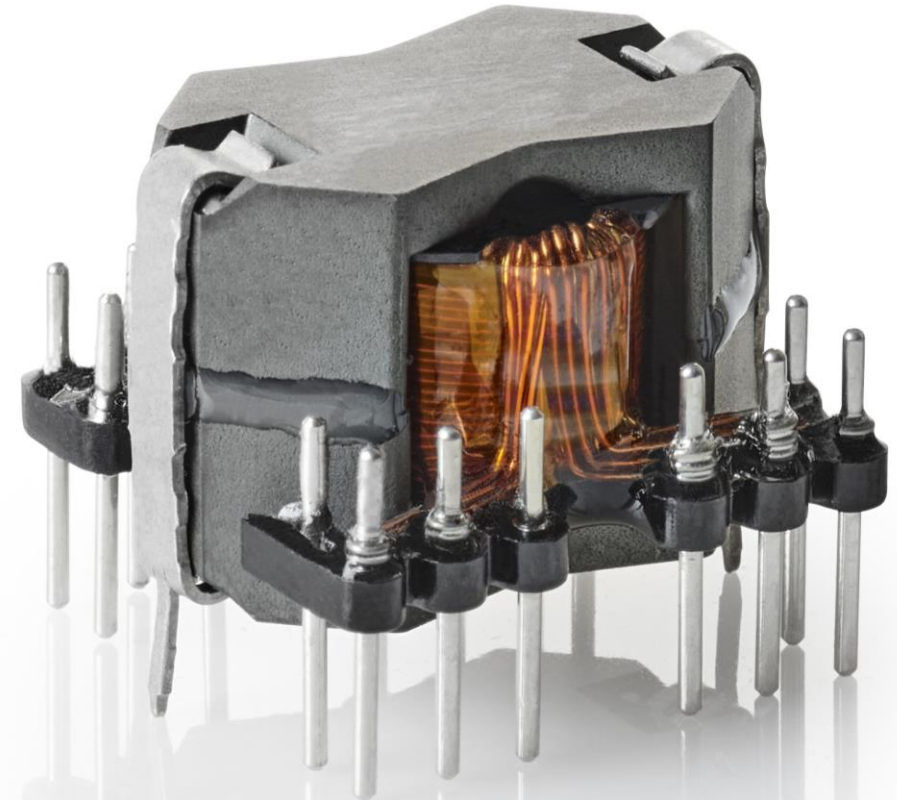
FLUX A/S

- 2007->
- 2008 - ISO 9001
- 2009 - AS 9100
- 2020 - ESCC QML
- ESCC3201/013
Technology Flow
Qualification



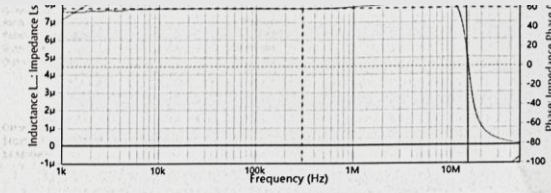
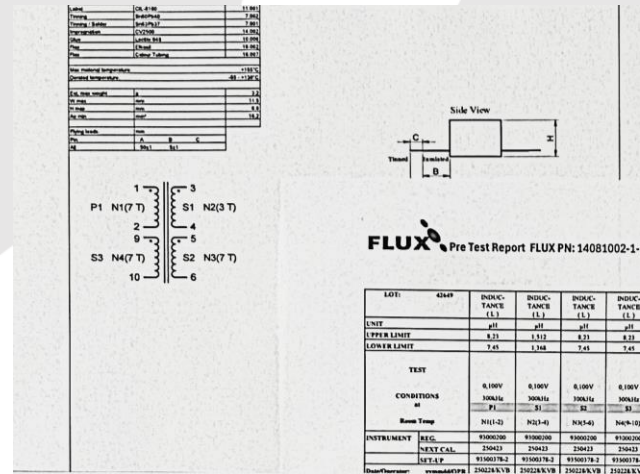
Comparison

	MIL-STD-981	MIL-STD-981	ESCC3201
	Class B	Class S	ESCC3201/013
LOT reject	10%	5%	5%
Pre-Screen	No	No	Yes
EM/PFM	EM	EM	PFM



ESCC3201/013

- Custom Magnetics
- PAD: ESCC Mag. Sheet
- PFM: Augmented Test
- ESCC TRB approval
- ESCC NC controls



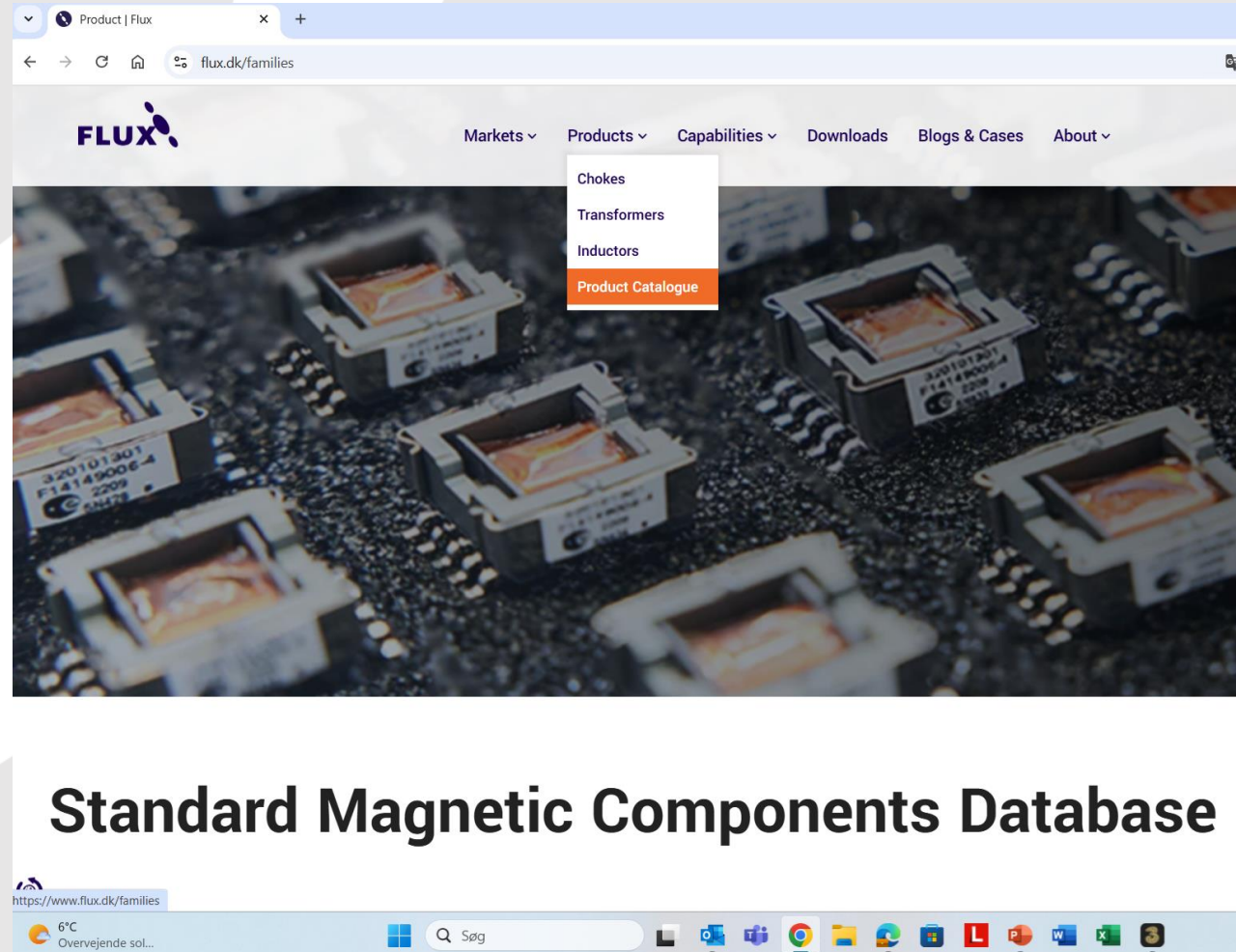
FLUX Pre Test Report FLUX PN: 14081002-1-P

LOT:	42649	DC RES- STANCE (R=)	DC RES- STANCE (R=)	DC RES- STANCE (R=)	LEAKAGE (L1)	LEAKAGE (L1)	LEAKAGE (L1)	LEAKAGE (L1)	DIELEC WITH	INDUCED VOLTAGE	VISUAL INSPEC	REMARK
UNIT		ohms	ohms	ohms	ohm	ohm	ohm	ohm		Vrms		
LOWER LIMIT		25.7	50.8	309	780	780	780	780		Amps		
LOWER LIMIT		0.0	0.0	0	0	0	0	0		Amps		

FINAL DESIGN REVIEW		FLUX
REPORT No:	FDR-25-007	
CUSTOMER:		
CUSTOMER P/N:	Transformer 5ME DC/DC	
FLUX P/N:	14081002-1-P	
PART DESCRIPTION:	Transformer	
LOT No:	42649	PROJECT 41335
PROJECT:	41335	QUALITY LEVEL: P
BASELINE DOCUMENTATION		
CUSTOMER SPECIFICATIONS		FLUX SPECIFICATIONS
COMMENTS		
MATERIALS	Core: P117 3F3 (FerriteCore) 160NH DML 8.015 Substr: CP-117-15 (FerriteCore) DML 15.001 Tape: 3M Tape 1205 DML 11.003 Label: CIL-8100 DML 11.001 Tinning: Sn60Pb40 DML 7.002 Tinning / Solder: Sn63Pb37 DML 7.001 Impregnation: CV2500 DML 14.002 Glue: Loctite 648 DML 10.006 Flux: Ebonol DML 16.002 Wire: 0.280 IEC60317-23 / IEC60317-51 / IEC60317-55 Grade 2 DML 19.003 / 19.004 Wire: 0.355 IEC60317-23 / IEC60317-51 / IEC60317-55 Grade 2 DML 19.003 / 19.004 Wire: 0.140 IEC60317-23 / IEC60317-51 / IEC60317-55 Grade 2 DML 19.003 / 19.004 Deviation from specification: Loctite 648 used for gluing cores, instead of EC2216.	
WINDING AND INSULATION	In accordance with 04980772-4	
MOUNTING OF WIRES	In accordance with 04980772-4	
COATING / IMPREGNATION / POTTING / GLUING	In accordance with 04980772-4 - Vacuum impregnated with CV2500	
TESTING:	As per PDR-24-215	
PART MARKING	PFM 14081002-1 Ft yyyy sn (pin1) Ft = Flux Logo yyyy = production year and week number sn = serial number (pin 1) = black dot on label indicate position of pin 1	
PHYSICAL DIMENSIONS	S/N: 001 002 Max: 2.5 g 2.5 g Height: 6.59 mm 6.59 mm OD: 11.19 mm 11.18 mm	
OTHER COMMENTS:	Max height changed to 6.6mm, to allow max height of core including marking label. An updated ShortSpec (04980772-4) is provided with the FDR, reflecting the changes.	

COTS or SOTS

- Flux Design Software
- Derating
- DML materials
- HiRel manufacturing
- Online Catalogue





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