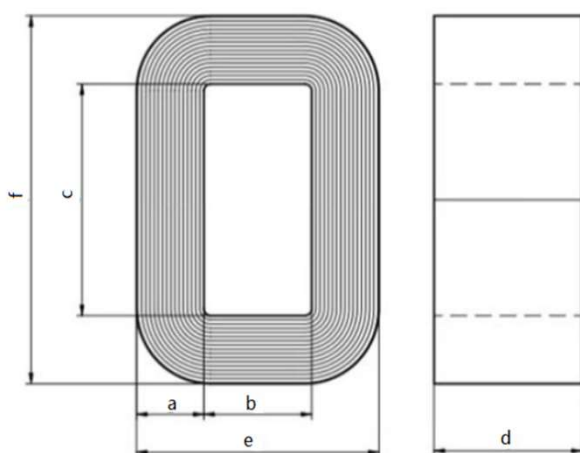




SPECIFICATION FOR APPROVAL

Item No.	NR 102*180*203/76 I	Rev	C
Description	Nano core for transformer	Date	2023/12/21

1 Physical parameters of the core



Item	Bare core	Finished core
a /mm	102 ± 2	104 ± 3
b/mm	76ref	74ref
c/mm	203ref	201ref
d/mm	180 ± 2	182 ± 3
e/mm	280 ± 4	282 ± 5
f/mm	407 ± 5	409 ± 6
Lm/cm	87.8	
Ac/cm ²	146.9	
m Fe/kg	94.8	

2 Electrical parameters of the core

Signal	Frequency /Hz	Testing		Secondary	LL	UL	Remark
SIN	20K	B/ Tesla	0.5	Ps (W/kg)	/	22	Core Loss
SIN	10K	U/V	1	Al(μ H)	575	745	

3 Impregnating

Core impregnated with Varnish E1229 and packed with glass fiber cloth

4 Components list

No.	Item	Spec	Remark
1	Core Ribbon	Nano 1K107	
2	Packing	Glass fiber cloth	
3	Varnish	E1229	

5 Packing

Cardboard box with PE foam protection. Core packed with oilpaper and plastics bag

Each box identified by a label containing the reference, the quantity and production batch number.

Quantity of the cores in each cardboard box to be define.

Annex 1 Characteristic of Nano ribbon 1K107

NATERIALS	Symbol	Unit	Value
INITIAL PERMEABILITY	μ_i	-	80000
SATURATION MAGNETIC FLUX DENSITY	B_s	mT	1200
REMANENT DLUX DENSITY	B_r	mT	300
COERCIVE FORCE	H_c	A/m	<2.0
CURIE TEMP.	T_c	°C	570
ELECTRICAL RESISITANCE	ρ	$\mu\Omega.cm$	80
DENSITY	d	kg/m^3	7.25×10^3
SATURATION MAGNETOSTRICTINO	λ_s	$\times 10^{-6}$	2.0

磁滞回线/Hysteresis Loop

