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http://www.pocomagnetic.com

Specification For Approval

Customer:	FerroMagnitoTrans LLC
Part Name:	Powder Core
Customer Part Number:	
Supplier Part Number:	NPF157060
Material:	FeSi
Coating material:	Epoxy resin
Color:	Blue
Core Operating Temperature:	-40℃~+150℃
Item For Approval:	Performance and dimension
Version:	A
Change note:	First issue

Customer's STAMP	Approved by	

Company STAMP	Submitted by	
	 LingWen	2022/06/28

备注：文件中的测试条件和标准是基于铂科的测试平台提供，测试结果仅对铂科的产品和测试系统负责

Note: All the testing results are tested by POCO 's equipments and platform, it is responsible for POCO' s products and testing system only.

请在3个工作日内完成承认，逾期未反馈信息视为认可

Dimensions of Bare Core			Dimensions of Coated Core		
OD	39.88 mm Max.	1.57 inch Max.	OD	40.69 mm Max.	1.602 inch Max.
ID	24.13 mm Min.	0.95 inch Min.	ID	23.32 mm Min.	0.918 inch Min.
H	14.48 mm Max.	0.57 inch Max.	H	15.37 mm Max.	0.605 inch Max.

◆ Core Parameter

Permeability (μ)	60
Inductance Factor	81 nH/N ² ($\pm 8\%$)
Magnetic Path Length	9.84 cm
Cross Section Area	1.072 cm ²
Window Area	4.27 cm ²
Volume	10.5485 cm ³
Breaking load	80 kg(min)

Double face Dielectric Strength $\geq 2000V$ (AC:5mA, 3S)

◆ DC Bias

Test Condition 50kHz/1V, AWG22/39Turns, @20A(100 Oe), 25°C
 Test Standard L(20A) $\geq 81.7 \mu H$

◆ Q Value

Test Condition 50KHZ/0.14V, AWG22/39Turns
 Test Standard ≥ 80

◆ Core Loss+copper Loss

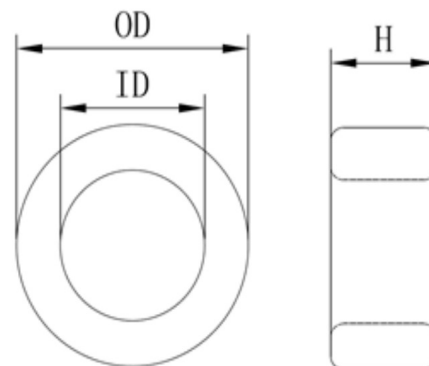
Test Condition 50kHz, AWG22, 1000Gauss, 25°C
 Test Standard ≤ 650 mW/cm³

◆ Printing

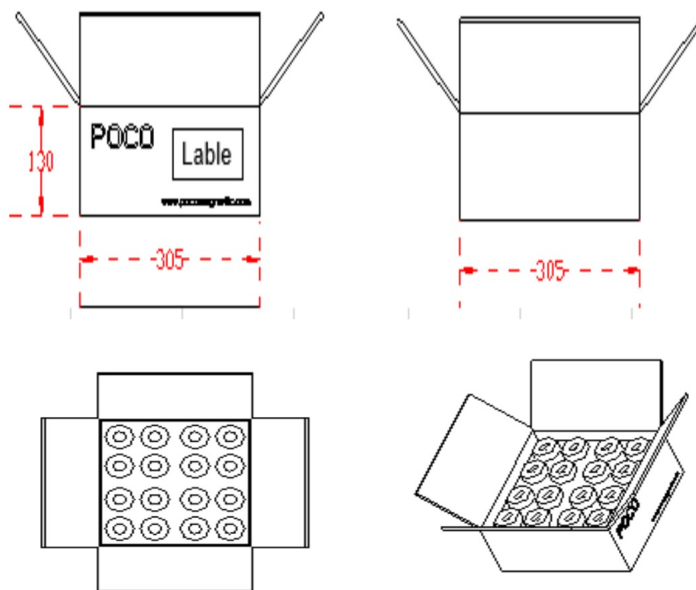
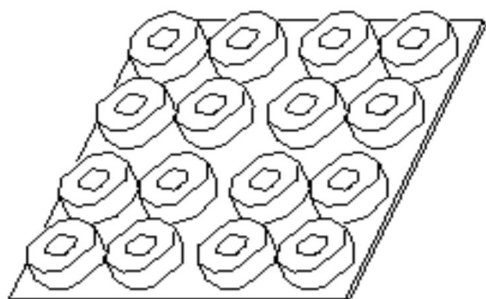
Part number on the core NPF157060+LOT NO
 Part number on the label of the outer box NPF157060

◆ Packing Specificatie

Box Size	305×305×130 mm
Packing Quantity	150 PCS
Quantity/Pallet	25 PCS
Pallet/Box	6



铂科测试绕线示意图，均绕



Photos are for reference only, specific in kind prevail

Doc.NO:(文件编号) : PC-03-Q-016			Rev(版次) : A1 1 of 2		
Title(文件名) : Finished product appearance limit					
Defective	Exception Description	Quality Requirement	Sample		Defect level
Defect	block defects	<p>1. Large defect: Only one is allowed, and the defect area = length * width ≤ 20mm² and depth ≤ 1mm, it is determined as OK; if the defect area > 20mm² or depth > 1mm or the number of defects ≥ 2, it is determined as NG.</p> <p>2. Medium defect: the number of defects is ≤ 3, and the single defect area = length * width < 15mm² and depth ≤ 0.8mm, it is determined as OK; if the defect area > 15mm² or the depth > 0.8mm or the number of defects ≥ 3, it is determined as NG.</p> <p>3. Small defect: defect area = length * width < 10mm² and depth ≤ 0.5mm, the number and size are not limited, and it is determined as OK when the core winding is not affected.</p> <p>4. The figure on the right uses 184 as an example template (all of which are subject to the practical limit)</p>			General
			Medium Defect (NG) L*W*D=5.5*4.0*0.9mm	Medium Defect (OK) L*W*D=4.5*3.0*0.6mm	
			Large Defect (NG) L*W*D=5.5*3.7*1mm	Large Defect (OK) L*W*D=5.4*3.4*0.8mm	
Bump	<p>After spraying, the surface has small bumps and is not smooth</p>	<p>1. The bump is smooth after being cut off, and the magnetic core is not exposed</p> <p>2. There is no impurity in the bump cut off. After the correction, the coating is smooth and no pits are allowed</p>			General
			Bump (NG)	magnetic core is not exposed after smoothing (OK)	
Inner ring particle	<p>The hanger rod is insulated. When the magnetic core is removed from the hanger rod, the powder on the hanger rod adheres to one end of the inner ring</p>	<p>There is no burr of sharp objects on the inner ring particles, which will not prick hands and affect the winding of magnetic core</p>			General
			Inner ring particle (OK)	Inner ring particle (NG)	
Foreign body attachment	<p>Other foreign body attachment after insulation</p>	<p>1. The coating foreign matters shall be beveled without exposing the magnetic core, and shall be smooth without binding, and shall not affect the winding of the magnetic core</p> <p>2. The foreign matters in the product shall be beveled and free of impurities. After correction, the coating shall be smooth and no pit is allowed</p>			General
			There is protuberance and sharp object adhesion (NG)	Foreign matters adhered due to friction during handling (OK)	

Note: the finished product appearance limit sample can refer to this model, and the sample difficult to determine can refer to the limit sample or seal sample for confirmation.

Verify:

Made by:

Date:

Doc.NO:(文件编号) : PC-03-Q-016		Rev(版次) : A1 2 of 2			
Title(文件名) : Finished product appearance limit					
Defective	Exception Description	Quality Requirement	Sample		Defect level
Pock marks		There is no sharp burr on the surface of the core, no thorns, no impact on the core winding			General
			The particles have raised sharps (NG)	Granular pitting with protrusion (OK)	
Bad steps	The paint bulge at the chamfer is not smooth	<ol style="list-style-type: none"> The step is smooth and not thorny, and does not affect the core wire or scratch the copper wire. The step needs to be lower than the end face of the core, and does not affect the core stack. 			General
			Chamfering step (OK)	Step protrusion is higher than end face (NG)	
Crack & Paint off	<p>Crack: There are regular lateral or longitudinal linear cracks</p> <p>Paint off: the paint falls off and the bare core is exposed.</p>	Cracks and paint off is not allowed			General
			cracks (NG)	Paint off (NG)	
Pinhole	There are pinholes on the surface	<ol style="list-style-type: none"> The coating color at the pinhole is the same without impurities; The hole appears to be a concave point without hole shape or exposed magnetic core 			General
			Pinhole with core exposed (NG)	no core exposed (OK)	

Note: the finished product appearance limit sample can refer to this model, and the sample difficult to determine can refer to the limit sample or seal sample for confirmation

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