

TDK XIAMEN CO., LTD. 1~19# Lian Sheng Rd., North Industrial District, Jimei, Xiamen, Fujian. [361021] Phone: 086-0592-6150333-576

Branch Office____

Sales div. Tel:

SPECIFICATION APPROVAL SPEC. No. XL-0911-1717 (00) MESSRS : TEE/LEPCOS ST. PETERS DATE: 2013-7-25 CUSTOMER'S PRODUCT NAME : PE90UU101X114X25N TDK PRODUCT NAME : PE90UU101X114X25N THIS SPECIFICATION IS: ☐ FULLY APPROVED ☐ DENIED ☐ APPROVED UNDER THE FOLLOWING CONDITIONS SIGNATURE : DATE: NAME (PRINTED) : TITLE :

MANUFACTURING. Magr	netics Business Grou	ıp	SALES DIV.	
PREPARED BY	CHECKED BY	APPROVED BY	REVIEWED BY	AUTHORIZED BY
(L1)	(1.1)	(LI)		
2013-07- 25	2013-07- 25	2013 07. 2 5		
吴聪强	吴璁强	黄斌		

PRODUCT CLASSIFICATION CODE :

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Dao	10	CUI	ILC	HILC	۵

1). Scope of Application

This	specification	shall	be	applied	for	the	Ferrite	cores	to	be
deli	vered to Messrs	S.			ΓΕΕ/I	_EPC	OS ST. PE	TERS		

2). Name of product

The	name	of	the	product	to	be	defined	in	this	specifi	cation	shall
be	defin	ed	as				PE90U	U10	1X114	X25N		

- 3). Related Specifications
- 4). Description

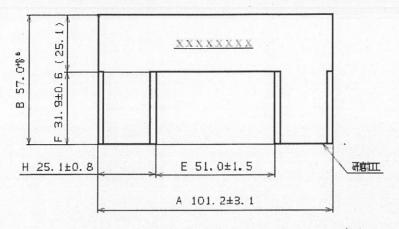
Items	Attached drawings and tables	Page
Outer appearance structure and size		2
Electrical		
characteristics		2
Marking		3
Manufacturing site		3
Packing		3

Edition	Date	Revised by		Revision	
00	2013-7-25		First Issue		
			Maria de La Caración		

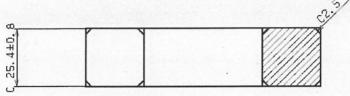
Magnetics Business Group

XL-0911-1717 (00) TDK CORPORATION

Dimensions (Unit:mm)



	Dimension	(mm	1)
Α	101.20	±	3.10
В	57.00	±	0.6
С	25.40	±	0.80
Е	51.00	±	1.50
F	31.90	±	0.60
Н	25.10	±	0.80



2. Electrical characteristics

ltem	Specification	Test conditions
		●EQUIP.: LCR METER(Agilent 4284A) OR EQUIVALENT
		● MEASUREMENT METHOD: Z-core+Z-core
Inductance	41.3 mH min	●FREQ. : 1 kHz
		●LEVEL : 0.5 mA
		●TEMP : R.T
		●COIL : N=100Ts
		●EQUIP.: B-H ANALYZER
	470mT min	●FREQ. :
Bs .		●LEVEL: 1194 A/m
		●COIL : N1=100Ts N2=10Ts
		●TEMP : R.T ·
		● MEASUREMENT METHOD : Z-core+Z-core

Marking

"90 Year and month , Day " are marked on side of core

- The core shall be supplied as pr.
- 5. Manufacturing site

China: TDK Xiamen Co., Ltd

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TDK CORPORATION

Inspection Test Schedule

Magnetics Business Group of TDK CORPORATION performs outgoing inspection tests on the inspection items in Table-1. The inspection shall be performed according to ISO-2859-1 Inspection level I (n=10, c=0 for dimension and n=5, c=0 for core loss)

Table-1. AQL and Inspection items

astgal st	AQL	Inspection Items
Α	0.4 %	Inductance and Crack
В	1.0 %	Dimensions
C	1.5 %	Chipping

Permissible limit of chips are prescribed as follows:

- (1) Depth of a permissible chip shall be 0.5 mm max. on mating faces and 1.0 mm max. on other faces. Chips on the corner should be judged by Table-2.
- (2) For the chips more than two on a core piece, the total area of chips shall be used as judgement.
- (3) Others.

Not described above are based on IEC 60424 specification.

Table 2.	Class
Mating face	2. 0 mm ²
Except mating face	4. 0 mm ²

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CAUTION!

X

CAUTIONS

Please seriously consider the following points in order to minimize heat generation:

• Select the material & shape of ferrite cores by utilizing the published nominal and min./max. values of magnetic properties especially;

AL-value

Saturation Flux Density (maximum)

Core Loss

Temperature Coefficients

Frequency Characteristics

Curie Temperature

- Provide proper insulation of windings by selecting non-corrosive and non-interacting materials and take care to avoid overfill of coilformer and scrapes or abrasions of wire insulation during winding.
- Insulation is further enhanced by use of a case, bobbin, tape, cement or other appropriate insulating medium with a thermal expansion coefficient very similar to that of ferrite.
- Avoid excessive force or poor fit of test fixtures and tools to prevent cracking or chipping the ferrite core.
- Provide clearance between the case, bobbin, coil and core to prevent cracking of the core and insulation breakdown.
- Distribute the coil windings evenly, preferably with Bi-Filar Windings, to prevent hot spots in the windings which could cause combustion.
- Keep safety in mind to prevent transient currents and to position the transformer assembly so that any heat generated in normal usage will not damage other circuit components even if another circuit should fail.
- To prevent personal injury when handling ferrite cores during assembly follow these precautions;
 - Ferrites, a ceramic material, are fragile and can chip and crack when mishandled.
 - · Avoid placing ferrite cores near strong magnetic fields.
 - · Prevent mechanical shocking of cores when using fixtures or tools.
 - · Prevent thermal shocking of cores when may cause cracks.
 - · Polished cores have sharp mating edges. Avoid touching these surfaces.
 - Because of the considerable weight of ferrite cores, be extra careful when stacking or handling cartons of cores.
 - · Avoid reprocessing ferrite cores.
 - Ferrite cores are not edible. Make sure to keep ferrite cores away from young children so that they do not attempt to eat the cores.

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