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Branc	h Office	
Sales	div. Tel:	

SPECIFICATION APPROVAL		
	SPEC. No.	XL-0911-1718 (00)
MESSRS : TEE/LEPCOS ST. PETERS	DATE :	2013-7-25
CUSTOMER'S PRODUCT NAME :		
PE90EE90X56X16 TDK PRODUCT NAME:	t .	
PE90EE90X56X16		
THIS SPECIFICATION IS: FULLY APPROVED DENIED APPROVED UNDER THE FOLLOWING CONDITIONS		
SIGNATURE : NAME (PRINTED) : TITLE :	DATE :	
MANUFACTURING. Magnetics Business Group	SALES DIV	

	netics Business Grou	ıp	SALES DIV.	
PREPARED BY	CHECKED BY	APPROVED BY	REVIEWED BY	AUTHORIZED BY
(L1)	(L1)	(LI)		
2013-07- 25	2013-07-25	2013 .07. 25		
人是聽發力	吴骢强	(旅黃)		
	PREPARED BY	PREPARED BY CHECKED BY	(L1) (L1)	PREPARED BY CHECKED BY APPROVED BY REVIEWED BY

PRODUCT CLASSIFICATION CODE :

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1). Scope of Application

This specification shall	be applied for the Ferrite cores to	be
delivered to Messrs.	TEE/LEPCOS ST. PETERS	

2). Name of product

The	name	of	the	product	to	be	defined	in	this	specification	on	shall
be	defin	ed	as				PE90)EE9	90X56)	(16		

- 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

Revision Records

Edition	Date	Revised by	Revision
00	2013-7-25	Wu CongQiang	
	- X- 35		
			,
		Cnasi	ification No

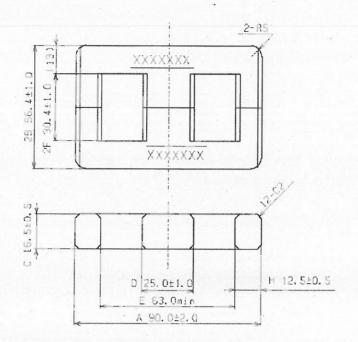
Specification No.

Magnetics Business Group

XL-0911-1718 (00)

TDK CORPORATION

Dimensions (Unit:mm)



Α	90.00	<u>±</u>	2.00
2B	56.40	±	1.00
С	16.50	±	0.50
D	25.00	±	1.00
Е	63.00		min
2F	30.40	±	1.00
Н	12.50	±	0.50

Electrical characteristics

Item	Specification	Test conditions
		● EQUIP.: LCR METER(Agilent 4284A) OR EQUIVALENT ● MEASUREMENT METHOD: Z-core+Z-core
Inductance	54.8 mH min	●FREQ. : 1 kHz
		●LEVEL : 0.4 mA
		● TEMP : R. T
		●COIL : N=100Ts
		●EQUIP.: B-H ANALYZER
		●FREQ. :
Bs	470mT min	●LEVEL : 1194 A/m
	470111 111111	●COIL : N1=100Ts N2=10Ts
		● TEMP : R. T
		●MEASUREMENT METHOD : Z-core+Z-core

3. Marking

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

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

China: TDK Xiamen Co., Ltd

Specification No.

XL-0911-1718 (00)
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

	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. Permissible limit of the area of chips.

Class

Mating face
2.0 mm²

Except mating face
4.0 mm²

Specification No.

XL-0911-1718 (00)

TDK CORPORATION

CAUTION!

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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.

DWG No.

XL-0911-1718 (00)