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Branch Office	
Sales div. Tel	1

AUTHORIZED BY

SPECIFICATION APPROVAL

PREPARED BY

2017.07.12 林火阳, CHECKED BY

2017 .07. 1 3

		SPEC. No.	XL-0911-2356 (00)
MESSRS : TCA/DISTRIBUTION		DATE :	Jul. 12. ' 17
CUSTOMER'S PRODUCT NAME :			
	H5C2ER9. 5/5-2	Z	
TDK PRODUCT NAME : H5	5C2ER9. 5/5-Z-	-NN	
THIS SPECIFICATION IS :			
☐ FULLY APPROVED			
□ DENIED			
☐ APPROVED UNDER THE FOLLOWING	CONDITIONS		
CICNATUDE .		DATE ·	
SIGNATURE :			
NAME (PRINTED) :			 -
TITLE :			
MANUFACTURING. Magnetics Business Gro	oup	SALES DIV.	

APPROVED BY

REVIEWED BY

PRODUCT CLASSIFICATION CODE :

cores to be

TCA/DISTRIBUTION

Basic contents	
1). Scope of Application	
This specification shall be applied for the Ferri	te

2). Name of product

The name of the product to be defined in this specification shall be defined as H5C2ER9.5/5-Z-NN

3). Related Specifications

delivered to Messrs.

4). Description

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

Revision Records

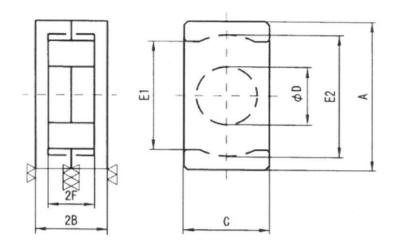
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Edition	Date	Revised by	Revision		
00	2017/7/12	Huoyang Lin	First Issue		
		- As the state of			
			9		
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Specification No.

Magnetics Business Group

XL-0911-2356 (00)

1. Dimensions (Unit:mm)



Sym	Dimension (mm)		
Α	9. 50	±	0 0.30
В	2. 50	±	0 0. 1
2B	5. 00	±	0 0. 2
С	5. 00	±	0 0. 2
ФД	3. 50	±	0 0. 2
E1	7. 00		min
E2	7. 50	±	0. 25 0
F	1. 60	±	0. 15 0

2. Electrical characteristics

Item	Specification	Test conditions		
Inductance	34.OmH min	●EQUIP.: LCR METER(Agilent 4284A)		
		or equivalent		
		●FREQ. : 1KHz		
		●LEVEL : 0.5mA		
		●COIL : Ø 0.1 2UEW 100Ts		

3. Marking

no marking

- 4. The core shall be supplied as pairs
- 5. Manufacturing site

China: TDK Xiamen Co., Ltd

Specification No.

XL-0911-2356 (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 0.3 mm max. on mating faces and 0.5 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	0.3	(0. 3	mm ²)
Except mating face	0.6	(0.6	mm ²)

Specification No.

XL-0911-2356 (00)

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CAUTION!

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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-0911-2356 (00)