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SPECIFICATION APPROVAL

SPEC. No. XL-0911-2356 (01)

MESSRS : TCA/DISTRIBUTION

DATE : Sep. 19. '20

CUSTOMER'S PRODUCT NAME :

H5C2ER9. 5/5-Z

TDK PRODUCT NAME :

H5C2ER9. 5/5-Z-NN

THIS SPECIFICATION IS :

- FULLY APPROVED
- DENIED
- APPROVED UNDER THE FOLLOWING CONDITIONS

SIGNATURE : _____

DATE : _____

NAME (PRINTED) : _____

TITLE : _____

MANUFACTURING. Magnetics Business Group			SALES DIV.	
PREPARED BY 	CHECKED BY 	APPROVED BY 	REVIEWED BY	AUTHORIZED BY

PRODUCT CLASSIFICATION CODE :

Basic contents

1). Scope of Application

This specification shall be applied for the Ferrite cores to be delivered to Messrs. TCA/DISTRIBUTION

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

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

Edition	Date	Revised by	Revision
00	2017/7/12	Huoyang Lin	First Issue
01	2020/9/19	Huoyang Lin	Remove "2B" dimension to remain the same as that on TDK catalogue.

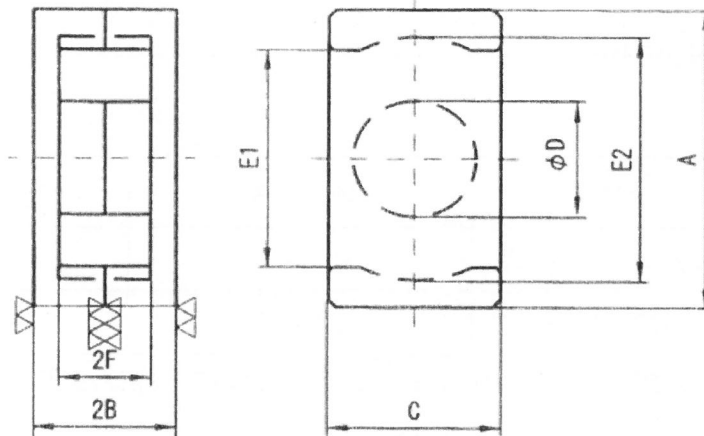
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1. Dimensions (Unit : mm)



Sym	Dimension (mm)
A	9.50 \pm $\begin{matrix} 0 \\ 0.30 \end{matrix}$
B	2.50 \pm $\begin{matrix} 0 \\ 0.1 \end{matrix}$
2B	5.00 \pm $\begin{matrix} 0 \\ 0.2 \end{matrix}$
C	5.00 \pm $\begin{matrix} 0 \\ 0.2 \end{matrix}$
ϕD	3.50 \pm $\begin{matrix} 0 \\ 0.2 \end{matrix}$
E1	7.00 min
E2	7.50 \pm $\begin{matrix} 0.25 \\ 0 \end{matrix}$
F	1.60 \pm $\begin{matrix} 0.15 \\ 0 \end{matrix}$

2. Electrical characteristics

Item	Specification	Test conditions
Inductance	34.0mH min	●EQUIP. : LCR METER(Agilent 4284A)
		or equivalent
		●FREQ. : 1KHz
		●LEVEL : 0.5mA
		●COIL : $\phi 0.1$ 2UEW 100Ts

3. Marking

no marking

4. The core shall be supplied as pairs

5. Manufacturing site

China:TDK Xiamen Co., Ltd

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6. Appearance

Permissible limit of chips are prescribed as follows :

- (1) Chips on the corner should be judged by Table-1.
- (2) For the chips more than two on a core piece, the total area of chips shall be used as judgement.

Table-1. 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)

7. Inspection items

	Inspection Item	Inspection level
A	Dimensions	n= 10 c=0
B	Inductance	n= 10 c=0

8. Other

Please return our company one stamping your receipt stamp on the cover of the specifications. When you company cannot sign it within two months from the issued day, it is thought that specifications were accepted.

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CAUTION !

See following before using products

The products listed on this specification sheet are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. If you intend the products in the applications listed below or if you have special to use requirements, exceeding the range or conditions set forth in this specification sheet, please contact us.

- ① Aerospace/Aviation equipment
- ② Transportation equipment (cars, electric trains, ships, etc.)
- ③ Medical equipment
- ④ Power-generation control equipment
- ⑤ Atomic energy-related equipment
- ⑥ Seabed equipment
- ⑦ Transportation control equipment
- ⑧ Public information-processing equipment
- ⑨ Military equipment
- ⑩ Electric heating apparatus, burning equipment
- ⑪ Disaster prevention/crime prevention equipment
- ⑫ Safety equipment
- ⑬ Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

CAUTION !

See following before using products

1. Please contact us if ferrite cores are used for following applications.
We will study how product should be warranted. If you do not let us know, We cannot judge whether products are proper or not, and cannot take responsibility of products.
 - Medical machine or equipment
 - Automobile
 - Infrastructure
2. Selection of material and design the shape should be done considered following magnetic properties
 - Permeability
 - Saturation Flux Density (maximum)
 - Core Loss
 - Frequency Characteristics
 - Curie Temperature
3. Parts should be selected carefully to be insulation.
(Avoid easy-corrosive and easy-reacting materials)
Take care of dealing with wire not to injure and overfill.
4. Take care of ferrite cores handling. Ferrite cores, a ceramic material are fragile and can chip and crack when handled.
5. Avoid placing ferrite cores near strong magnetic fields.
6. Prevent mechanical shocking of cores when using fixtures or tools.
7. Sharp thermal change(Heat shock) can make core break. Please take care of usage.
8. Be careful when you handle cartons of cores. It may be very heavy.
9. Take care of damage of cores when you take it out from inner package.
Because cores are fixed strongly on board, not to be damaged by transportaion.
10. Avoid reprocessing ferrite cores.
11. Ferrite cores are not edible. Make sure to keep ferrite cores awayfrom children so that they do not attempt to eat the cores.