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Branch	Office	

Sales div.Tel:

SPECIFICATION APPROVAL

SPEC. No. XL-0911-0040 (00) DATE : Jul. 12. '17 MESSRS : TCA/DISTRIBUTION CUSTOMER'S PRODUCT NAME : PC44PQ35/35Z-12 PC44PQ35/35Z-12 TDK PRODUCT NAME : THIS SPECIFICATION IS : □ FULLY APPROVED DENIED □ APPROVED UNDER THE FOLLOWING CONDITIONS SIGNATURE : DATE : NAME (PRINTED) : TITLE : SALES DIV. MANUFACTURING. Magnetics Business Group AUTHORIZED BY REVIEWED BY PREPARED BY CHECKED BY APPROVED BY



Basic co	ontents			
1). Scc	ope of App	lication		
	is specifi livered to		be applied for the Ferrite cores TCA/DISTRIBUTION	to be
2). Nan	ne of proc	luct		
The	e name of	the product t	to be defined in this specification	on shall
be	e defined	as	PC44PQ35/35Z-12	
3). Re	lated Spec	cifications		
4). Des	scription			
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Dimensions(mm) sym 1. Dimensions (Unit:mm) 0.70 35.00 A1 ± 0.50 θ? 26.00 A2 ± 0.50 32.00 ± 0.50 В AI BB 0 m 0 С 14.60 ± 0.25 0 17.50 D ± R2 0.25 R1 3 Е 23.5 MIN F Н 1 0.3 D 12.35 ± Н

2. Electrical characteristics

A2

Item	Specification	Test conditions		
		●EQUIP.: LCR METER(Agilent 4284A)		
		or equivalent		
Inductance See Item List		●FREQ. : 1 kHz		
(Temp)	(at 25°C)	●LEVEL : 0.5 mA		
NG 52 05		●COIL : 2uew ¢0.40 100Ts		
		●EQUIP.: B-H ANALYZER		
		●FREQ. : 100 kHz		
Core loss	5.27W MAX (at 100°C)	●LEVEL : 200 mT		
(Temp)		●COIL : N1=N2=5Ts		
		●MEASURE MODE: Z+Z		

3. Item List

NO.	Customer's item	TDK item	TDK item code	AL-value	L-value	measure mode
1		PC44PQ35/35Z-12	LZ11230070	Z	48.6 mH± 25%	Z+Z

4. Marking

"PQ3535 Date PC44 X Z" is marked on the core's backside.

- 5. The core shall be supplied as pairs.
- 6. 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

	AQL	Inspection Items	
Α	0.4 %	Inductance and Crack	
В	1.0 %	Dimensions	
С	1.5 %	Chipping	

Permissible limit of chips are prescribed as follows :

- Depth of a permissible chip shall be
 1.0 mm max. on mating faces and
 1.2 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	7.0	(7.0	mm ²)
Except mating face	14.0	(14.0	mm ²)

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ITEM DWG. No.
CAUTION !
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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