

## **SPECIFICATION APPROVAL**

### **Soft ferrite core**

DN65H H20×12×6

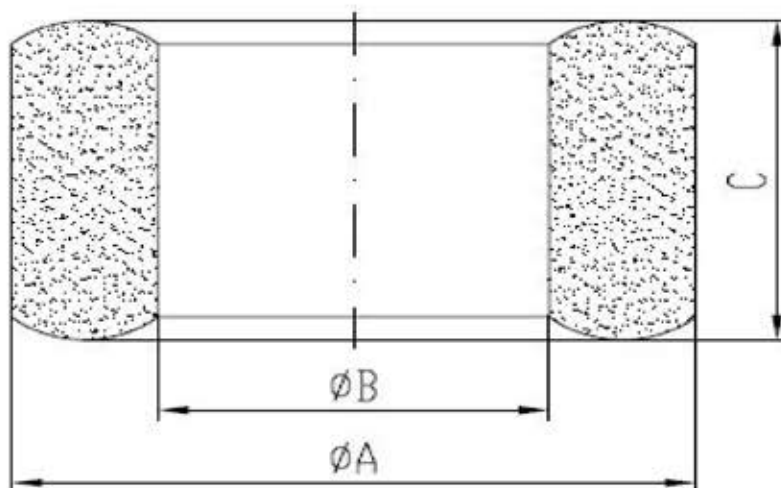
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**CUSTOMER:** LEPCOS

**APPROVED:**

## 1、 SHAPE AND DIMENSIONS



尺寸 Dimensions	$\phi A$	$\phi B$	$C$
	$20.0 \pm 0.5$	$12.0 \pm 0.3$	$6.0 \pm 0.3$

## 2、 APPEARANCE REQUIREMENT

### 2.1 Chip

2.1.1 Area of chip  $< 3.0 \text{ mm}^2$

2.1.2 Sum of chipping area:  $< 6.0 \text{ mm}^2$

2.1.3 Depth of chip  $< 0.8 \text{ mm}$

2.2 Crack·····There shall not be any crack which can be detected by naked eye . (eyesight level:1.5)

2.3 Other·····There shall be no stain nor inclusion.

(2)If there is any doubt on appearance , the limit sample shall be made.

## 3、

### ELECTROMAGNETIC AND MECHANICAL PROPERTY

ITEM	VALUE	TEST CONDITION
Z1 ( $\Omega$ ) Impedance	24 min	Instrument: HP4291B Frequency: $f=25\text{MHz}$ Coil: $N=1T_s$ $\Phi 0.4\text{mm} \times 160\text{mm}$ Temperature: $T=(25 \pm 2)^\circ\text{C}$
Z2 ( $\Omega$ ) Impedance	65 min	Instrument: HP4291B Frequency: $f=100\text{MHz}$ Coil: $N=1T_s$ $\Phi 0.4\text{mm} \times 160\text{mm}$ Temperature: $T=(25 \pm 2)^\circ\text{C}$

## DN65H Material Characteristics

Item	Symbol	Condition	Unit	
Initial Permeability	$\mu_i$	25 °C		650 ± 25% (1KHz)
Relative Loss Factor	$\tan \delta / \mu_i$	25 °C	$\times 10^{-6}$	20 (0.1MHz)
Saturation flux density	Bs	25 °C H=1600A/m	mT	330
Remanence	Br	25 °C	mT	150
Coercivity	Hc	25 °C	A/m	35
Relative Temperature Coefficient	$\alpha_{ur}$	20 ~ 60 °C	$\times 10^{-6}/^{\circ}\text{C}$	2~8
Curie temperature	Tc		°C	>150
Electrical Resistivity	$\rho$	25 °C	$\Omega \cdot \text{m}$	$> 10^5$
Density	d	25 °C	$\text{g}/\text{cm}^3$	5.1

## INSPECTION RULE

- 1 Cores inspection is conducted per GB/T2828.1-2012 with visual appearance and dimension II ,electromagnetic property S-3,AQL:0.65.
- 2 Customer is expected to complete the inspection within 10 days after receipt of the cores and inform supplier the results of cores inspection in writing or the cores would be treated as qualified.