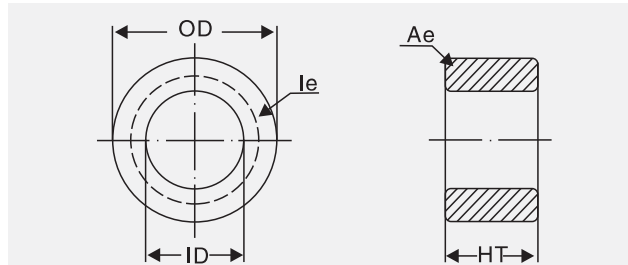


# SPECIFICATION FOR APPROVAL

## 1. Material

Production:	Iron Powder Cores
KDM.P/N:	KT80-52B
$A_L$ :	$63(nH/N^2) \pm 10\%$
Material:	-52
Coating Color:	Green/Blue
Coating material:	epoxy
Coating Breakdown Voltage:	600Vrms.0.5mA. 2sec



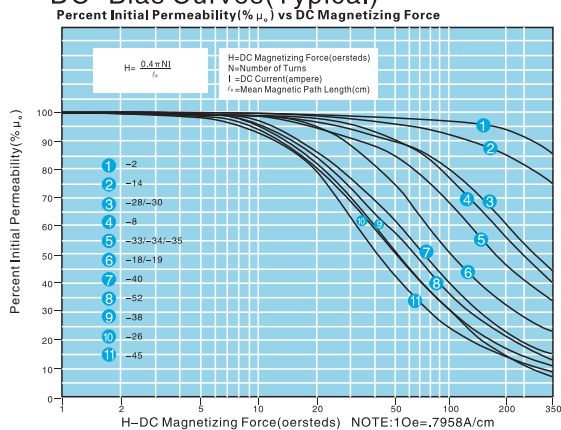
## 2. Physical Characteristics

After Coating			$\ell_e$ (cm)	$A_e$ (cm <sup>2</sup> )	V (cm <sup>3</sup> )	W (cm <sup>2</sup> )	Weight	Box Quantity (Pieces)
OD mm	ID mm	Ht mm						
20.20 ± 0.50	12.60 ± 0.50	9.53 ± 0.65	5.140	0.347	1.780	1.246	13.50g	891

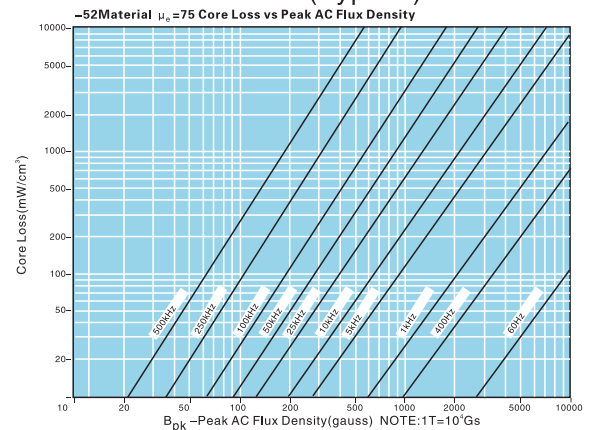
## 3. Electrical Parameters(Typical) Temperature(25°C ± 2°C)

Test Item	Test Condition	Value(Typical)
Inductance	$\phi$ 0.29mm/10Ts, 10kHz/1V, $I_{DC}=0A$	6.30 $\mu$ H ± 10%
DC-Bias	$\phi$ 0.5mm/41Ts, 10kHz/1V, L(5.0A)/L(0A) × 100%( $H_{DC}=50Oe$ )	53%(Min.)
Core Loss	100kHz/140Gs	67mW/cm <sup>3</sup> (Max.)
Q	$\phi$ 0.29mm/10Ts, 200kHz/1V, $I_{DC}=0A$	16(Min.)
Remarks		

### DC-Bias Curves(Typical)



### Core Loss Curves(Typical)



**Prodin Ferrite S.L.**

Calle A, 27, 08620 Sant Vicenç dels Horts, Barcelona (Spain)

Tel.: +34 93 672 46 10

[info@prodinferrite.com](mailto:info@prodinferrite.com) [www.prodinferrite.com](http://www.prodinferrite.com)