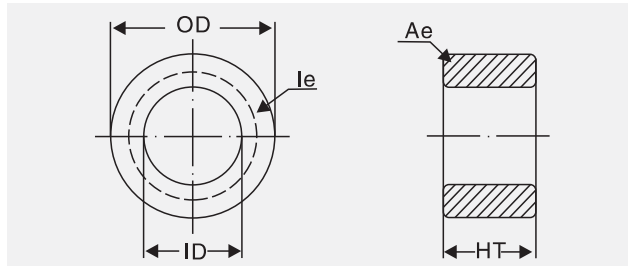


# SPECIFICATION FOR APPROVAL

## 1. Material

Production:	Iron Powder Cores
KDM.P/N:	KT130-45A
$A_L$ :	$53(nH/N^2) \pm 12\%$
Material:	-45
Coating Color:	Black
Coating material:	epoxy
Coating Breakdown Voltage:	600Vrms.0.5mA. 2sec



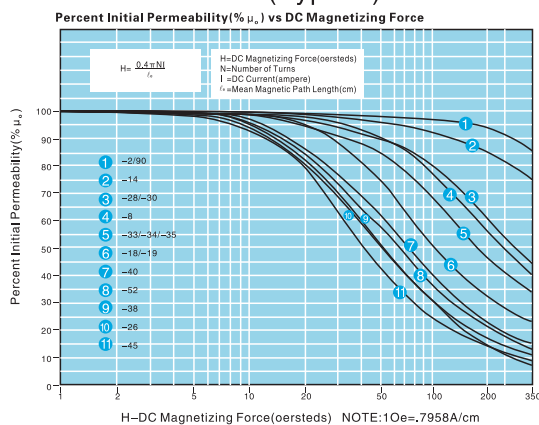
## 2. Physical Characteristics

Before Coating			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(Max) in/mm	ID(Min) in/mm	Ht(Max) in/mm	OD(Max) mm	ID(Min) mm	Ht(Max) mm						
1.300 33.00	0.785 19.90	0.225 5.72	33.83	19.30	6.72	8.280	0.359	2.929	2.930	21.6g	/

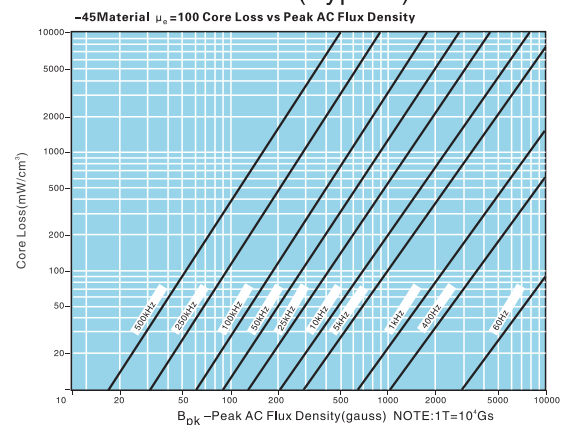
## 3. Electrical Parameters(Typical) Temperature(25°C ± 2°C)

Test Item	Test Condition	Value(Typical)
Inductance	$\phi$ 0.29mm/10Ts, 10kHz/1V, $I_{DC}=0A$	5.30 $\mu H \pm 12\%$
DC-Bias	$\phi$ 0.5mm/55Ts, 10kHz/1V, L(6.0A)/L(0A) × 100%( $H_{DC}=50Oe$ )	41%(Min.)
Core Loss	100kHz/140Gs	70mW/cm <sup>3</sup> (Max.)
Q	$\phi$ 0.29mm/10Ts, 200kHz/1V, $I_{DC}=0A$	6(Min.)
Remarks	Set the internal resistance of LCR meter to 100 $\Omega$ .	

### DC-Bias Curves(Typical)



### Core Loss Curves(Typical)



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