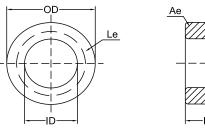


# SPECIFICATION FOR APPROVAL

### Material

Production:	Si-Fe Cores
FUAN.P/N:	KSF290-090A
AL:	309(nH/N <sup>2</sup> )±8%
Material:	90 µ
Coating Color:	Blue
Coating material:	ероху
Coating Breakdown	Voltage: 1000V 0.5mA 2Sec

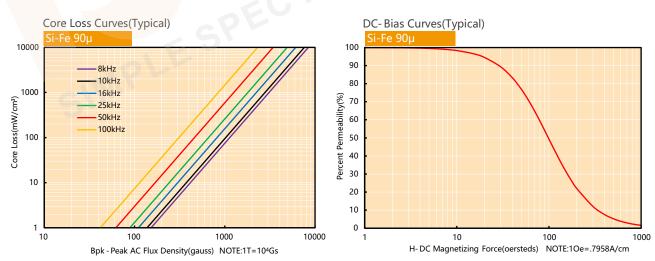


## **Physical Characteristics**

Before Coating		After Coating						Weight			
OD(Max.) in/mm	ID(Min.) in/mm	Ht(Max.) in/mm	OD(Max.) mm	ID(Min.) mm	Ht(Max.) mm	Le(cm)	Ae(cm <sup>2</sup> )	V(cm³)	W(cm <sup>2</sup> )	(g) (ref.)	Quantity (Pieces)
2.945 74.80	1.783 45.30	1.378 35.00	75.20	44.07	36.27	18.380	5.040	92.640	15.246	687.7	27

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

Test Item	Test Condition	Value(Typical)	Test Instrument	
Inductance	φ0.80mm/98Ts,20kHz/1V,I=0A (Evenly full windings)	2968µH±8%	CH3302	
DC-Bias	φ0.80mm/98Ts, 20kHz/TV, I=15A(H=100Oe) (Evenly full windings)		WK3255B+WK3265B	
Core Loss	50kHz/1000Gs	750mW/cm³(Max.)	SY-8219	
Remarks	Set the internal resistance of LCR meter to $100\Omega$ .			



Si-Fe® Cores (KSF Series) is made from 94% Fe and 6% Si. It is named XFlux by Magnetics and MegaFlux by CSC. It has a saturation flux density of 16000Gs and excellent DC-Bias characteristics. Its core loss is lower than Iron Powder Cores and have no problem of Thermal Aging. It is specially suitable for applying in, High Current Power Choke, Power inductor for energy storage, PFC Chockes and so on. It is also widely applied in solar, wind energy, hybrid powered vehicles. Permeability that we can produce now is 26ui-90ui, toroid and block shape.