

## SPECIFICATION FOR APPROVAL

### Material

|                            |                                |
|----------------------------|--------------------------------|
| Production:                | Iron Powder Cores              |
| FUAN.P/N:                  | KT200-52                       |
| AL:                        | 92.0(nH/N <sup>2</sup> )(±10%) |
| Material:                  | -52                            |
| Coating Color:             | Green/Blue                     |
| Coating material:          | epoxy                          |
| Coating Breakdown Voltage: | 800V, 0.5mA, 2Sec              |



### Physical Characteristics

| After Coating |           |           | Le(cm) | Ae(cm <sup>2</sup> ) | V(cm <sup>3</sup> ) | W(cm <sup>2</sup> ) | Weight (g) (ref.) | Box Quantity (Pieces) |
|---------------|-----------|-----------|--------|----------------------|---------------------|---------------------|-------------------|-----------------------|
| OD mm         | ID mm     | Ht mm     |        |                      |                     |                     |                   |                       |
| 50.8±0.63     | 31.8±0.63 | 14.0±0.75 | 13.000 | 1.270                | 16.500              | 1.539               | 117.81            | 128                   |

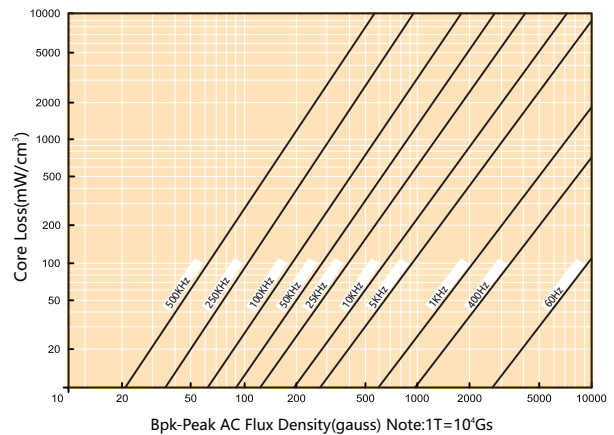
### Electrical Parameters(Typical)      Temperature(25°C±2°C)

| Test Item  | Test Condition   | Value(Typical)              | Test Instrument |
|------------|--|-----------------------------|-----------------|
| Inductance | φ0.29mm/10Ts, 10kHz/1V, I=0A<br>(Evenly full windings)                     | 9.2μH(±10%)                 | CH3302          |
| DC-Bias    | φ0.50mm/74Ts,10kHz/1V,L(7.0A)/L(0A)*100%(H=50Oe)<br>(Evenly full windings) | 53%(Min.)                   | WK3255B+WK3265B |
| Core Loss  | 100KHz/140Gs   | 67mW/cm <sup>3</sup> (Max.) | SY-8219         |
| Q          | φ0.50mm/74Ts, 200kHz/1V, I=0A<br>(Evenly full windings)                    | 16.0(Min.)                  | CH3302          |
| Remarks    | Set the internal resistance of LCR meter to 100Ω.                          |                             |                 |

DC-Bias Curves(Typical)



Core Loss Curves(Typical)



Iron Powder Cores is a magnetic core which use traditional production arts, after the pure powder which content of Fe is more than 99% surface insulation coating and then mixed pressed with organic binder. Because it hasn't been conducted in the high temperature, so it's used temperature is -65C ~ +125C. Products including permeability 10ui-100ui, toroid, E type,