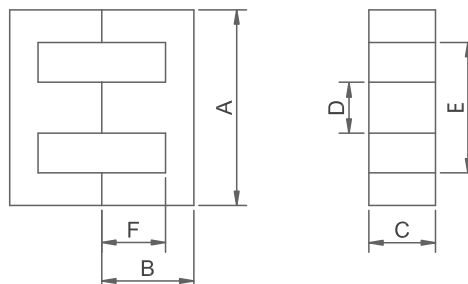


## SPECIFICATION FOR APPROVAL

### Material

|                  |                                |
|------------------|--------------------------------|
| Production:      | MnZn Power Ferrite Cores       |
| FUAN.P/N:        | EF16.1-8.05-4.5                |
| AL:              | 1100(nH/N <sup>2</sup> )(±25%) |
| Material:        | -P3                            |
| Code No.:        | FAY01006                       |
| Material Number: | 0BC030161205                   |
| Document/Rev:    | 00                             |



### Physical Characteristics

| Before Coating |                |                |                |              |                | C1(mm <sup>-1</sup> ) | Le(mm) | Ae(mm <sup>2</sup> ) | Ve(mm <sup>3</sup> ) | Weight (g) (ref.) |
|----------------|----------------|----------------|----------------|--------------|----------------|-----------------------|--------|----------------------|----------------------|-------------------|
| A(mm)<br>±0.40 | B(mm)<br>±0.15 | C(mm)<br>±0.20 | D(mm)<br>±0.15 | E(mm)<br>Min | F(mm)<br>±0.15 |                       |        |                      |                      |                   |
| 16.10          | 8.05           | 4.50           | 4.55           | 12.20        | 5.90           | 1.910                 | 34.69  | 19.73                | 743.4                | 3.71              |

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

| Test Item  | Test Condition  | Value(Typical) | Test Instrument          |
|------------|---|----------------|--------------------------|
| Inductance | φ0.25mm/1Ts, 1kHz/0.25V, I=0A<br>(Evenly full windings)   | 1100nH(±25%)   | HP4284A<br>Or equivalent |
|            | φ0.25mm/100Ts, 1kHz/0.25V, I=0A<br>(Evenly full windings) | 11.0mH(±25%)   |                          |
| Remarks    | Set the internal resistance of LCR meter to 100Ω.         |                |                          |

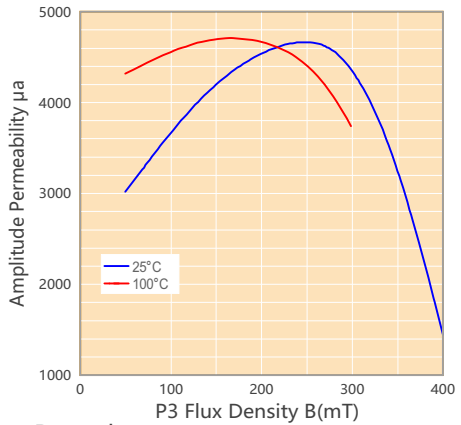
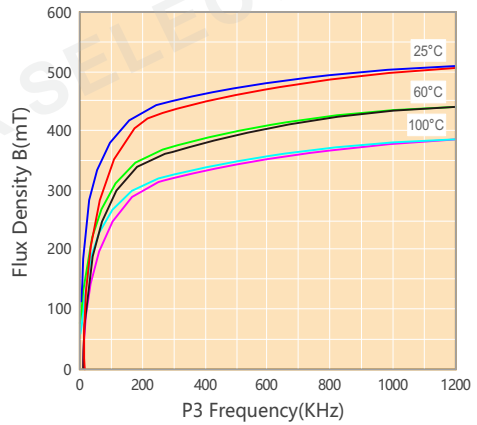
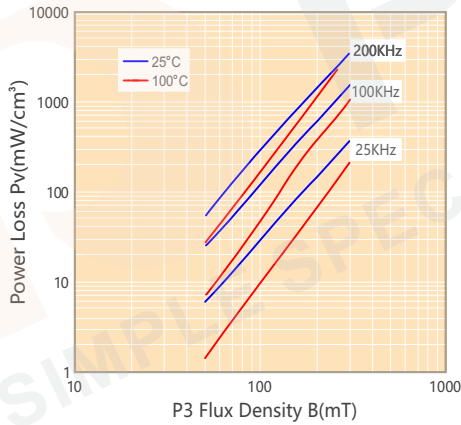
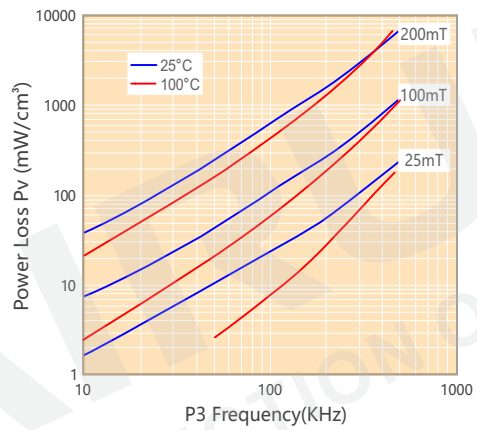
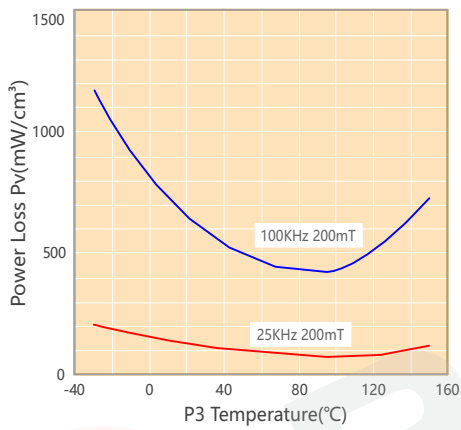
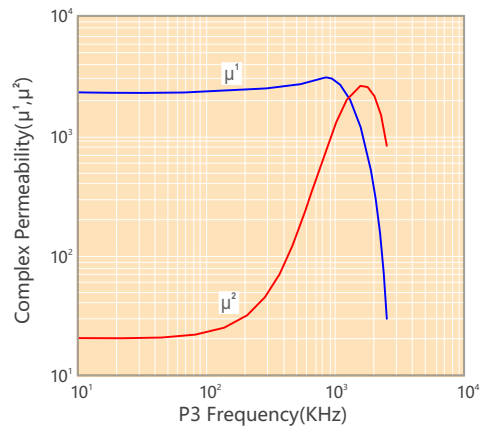
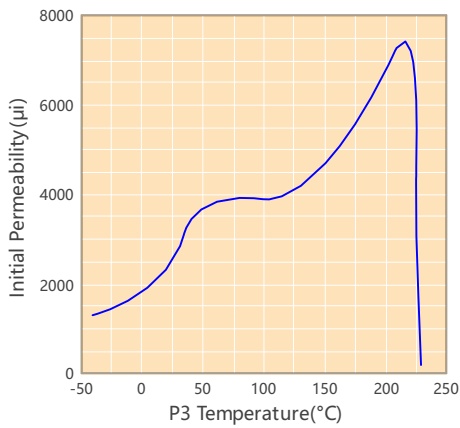
### Material Characteristics

| Symbol   | Conditions      | Value |                     |
|--|-----------------|-------|---------------------|
| μ <sub>i</sub><br>Initial permeability             | 10KHz, B<0.25mT | 25°C  | 2300±25%            |
| B <sub>s</sub> (mT)<br>Saturation flux density     | 50Hz, 1194A/m   | 25°C  | 510                 |
| Br(mT)<br>Remanence flux density                   |                 | 100°C | 390                 |
| H <sub>c</sub> (A/m)<br>Coercive force             |                 | 25°C  | 95                  |
|  |                 | 100°C | 55                  |
| p <sub>v</sub> (kw/cm <sup>3</sup> )<br>Power loss | 100KHz, 200mT   | 25°C  | 600                 |
|  |                 | 60°C  | 450                 |
|  |                 | 100°C | 410                 |
|  |                 | 120°C | 500                 |
| T <sub>c</sub> (°C)<br>Curie temperature           | 10KHz, B<0.25mT |       | > 215               |
| ρ(Ω·m)<br>Resistivity                              |                 | 25°C  | 6.5                 |
| d(g/cm <sup>3</sup> )<br>Density                   |                 | 25°C  | 4.8*10 <sup>3</sup> |

1. Mostly Used at Middle Frequency(Less than 200KHz).
2. Low Core Loss and High Saturation Flux Density.
3. The Temperature Point of the Lowest Core Loss is 90°C.

Remark:

The value of material characteristics are typical value, Please contact our company for more characteristics in your order or agreement.



**Remark:**

The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.