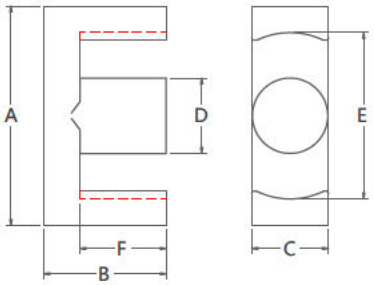
Patron
Passive Elektronic

SPECIFICATION FOR APPROVAL

Material

Production:	MnZn Power Ferrite Cores
P/N:	ETD59.8-31-21.6
AL:	311(nH/N²)(±25%)
Material:	P3
Document/Rev:	00



Physical Characteristics

Before Coating						C1(mm⁻¹)	Le(mm)	Ae(mm²)	Ve(mm³)	Weight (g) (ref.)
A(mm) ±1.50	B(mm) ±0.30	C(mm) ±0.50	D(mm) ±0.50	E(mm) ±1.10	F(mm) ±0.40					
59.80	31.00	21.60	21.60	44.70	22.50	0.378	139.0	368.0	51500	257.0

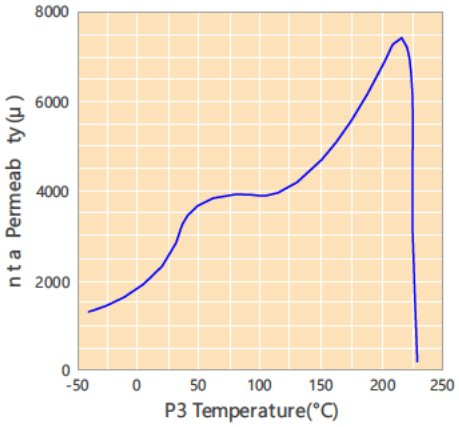
Electrical Parameters(Typical) Temperature(25℃±2℃)

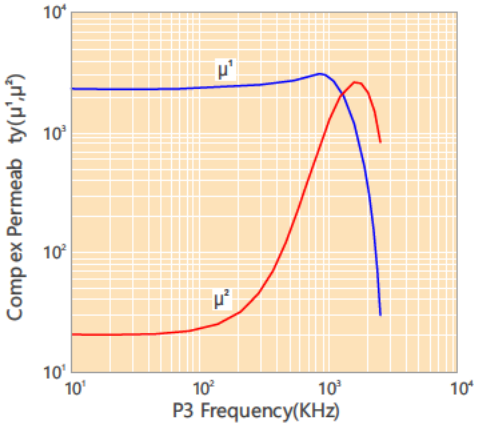
Test Item	Test Condition	Value(Typical)	Test Instrument
Inductance	φ0.55mm/1Ts, 1kHz/0.25V, I=0A (Evenly full windings)	311nH(±25%)	HP4284A Or equivalent
	φ0.55mm/100Ts, 1kHz/0.25V, I=0A (Evenly full windings)	3.11mH(±25%)	
Remarks	Set the internal resistance of LCR meter to 100Ω.		

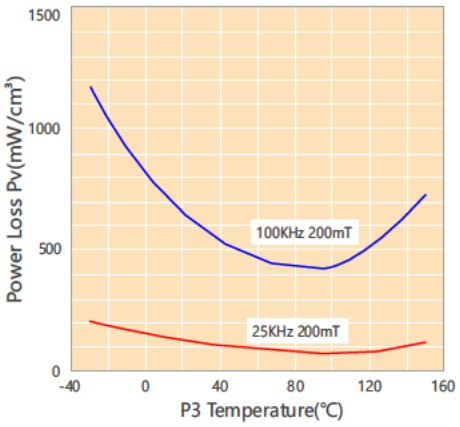
Material Characteristics

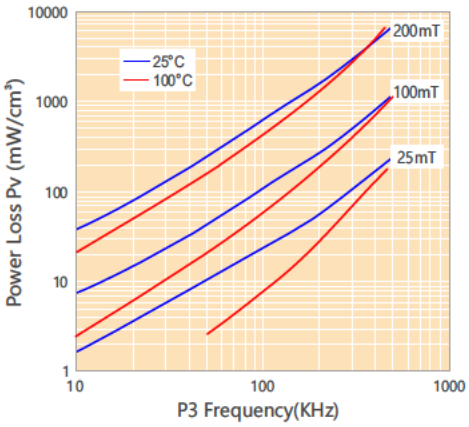
Symbol	Conditions		Value
μi Initial permeability	10KHz,B <0.25mT	25°C	2300±25%
Bs(mT) Saturation flux density	50Hz,1194A/m	25°C	510
		100°C	390
Br(mT) Remanence flux density		25°C	95
		100°C	55
Hc(A/m) Coercive force		25°C	14
		100°C	9
pv(kw/cm³) Power loss	100KHz,200mT	25°C	600
		60°C	450
		100°C	410
		120°C	500
Tc(°C) Curie temperature	10KHz,B <0.25mT		> 215
ρ(Ω·m) Resistivity		25°C	6.5
d(g/cm³) Density		25°C	$4.8*10^3$

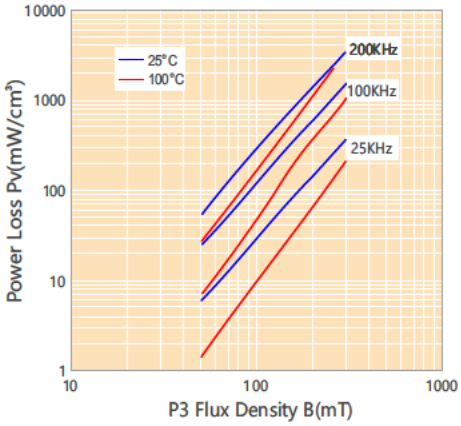
1.Mostly Used at Middle Frequency(Less than 200KHz).
2.Low Core Loss and High Saturation Flux Density.
3.The Temperature Point of the Lowest Core Loss is 90°C.
Remark:
The value of material is characteristics are typical value,Please contact our company for more characteristics in your order or agreement.

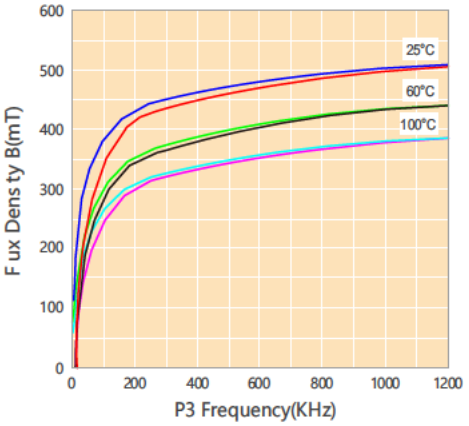


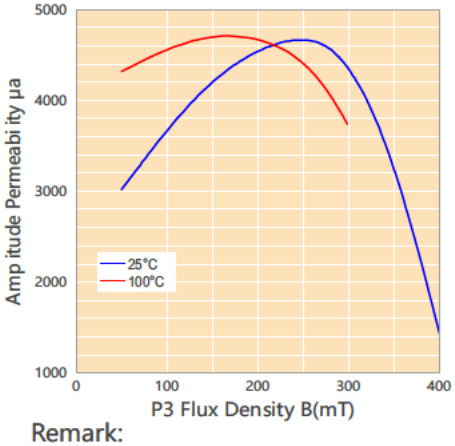












Remark:
The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.