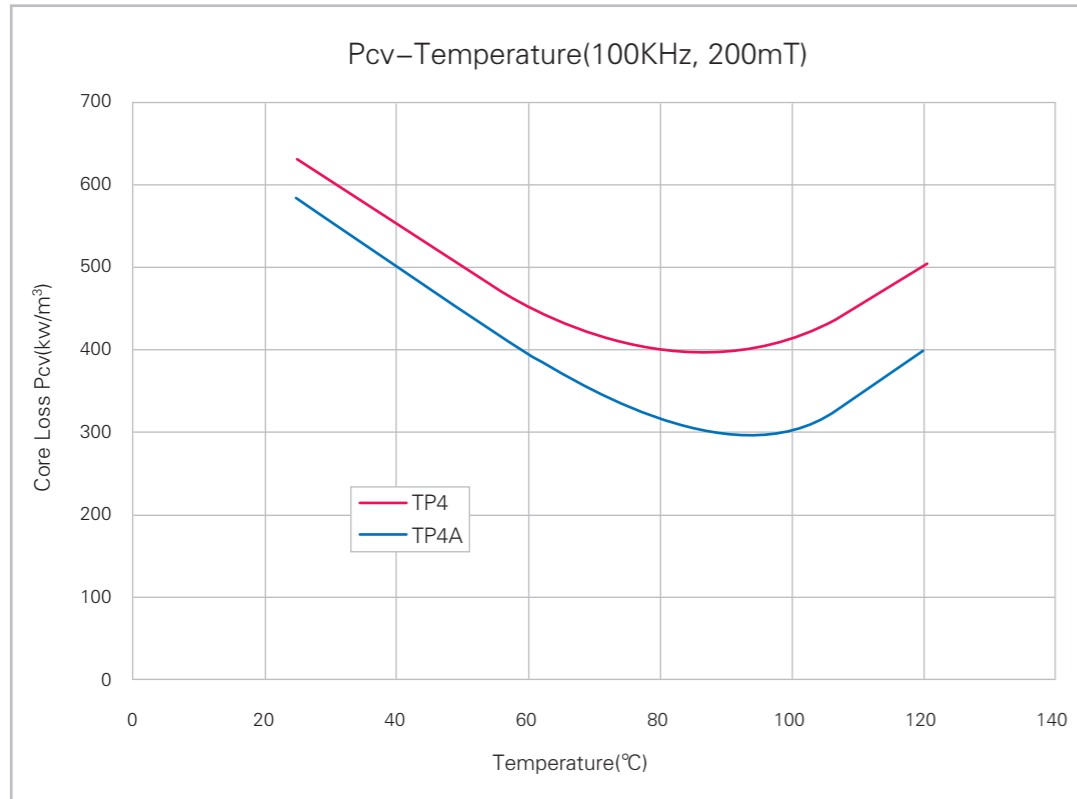


# 中频中温低损耗铁氧体材料TP4和TP4A

Middle Frequency, Middle Temperature, Low Loss Ferrite Material TP4 & TP4A

主要特性图表/Main characteristics graph:



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! 所列材料的特性为该材料的典型值，测定样环：T31×19×6  
The value of material's characteristics are typical value. Sample core: T31×19×6

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Middle Frequency, Middle Temperature, Low Loss Ferrite Material TP4 & TP4A



## 特点/Features:

1. 主要应用于中频段 ( TP4小于200kHz, TP4A小于300kHz )  
Mostly Used at Middle Frequency.(TP4 Less Than 200 kHz,TP4A Less Than 300 kHz)
2. 低磁芯损耗, 高饱和磁感应强度/Low Core Loss And High Saturation Flux Density
3. 损耗最低的温度点约在90°C/The Temperature Point of The Lowest Core Loss is about 90°C

## 应用/Application:

1. 电源用功率变压器/Transformer for Power Supply
2. 功率电感/Power Inductance
3. DC-DC转换变压器/The Transformer of DC-DC Converter

## 标准形状/Typical Shape:

EPC, RM, EPM, EER, EE, T, PQ

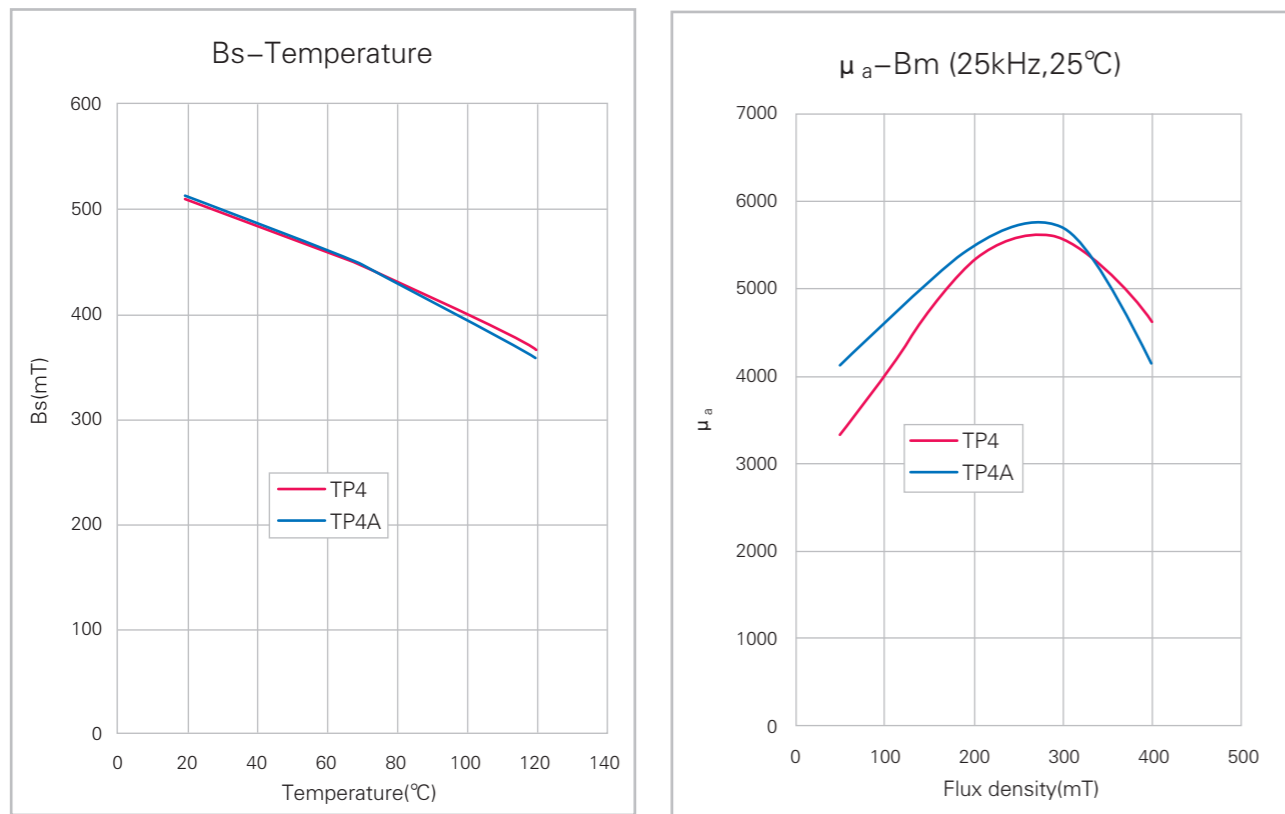
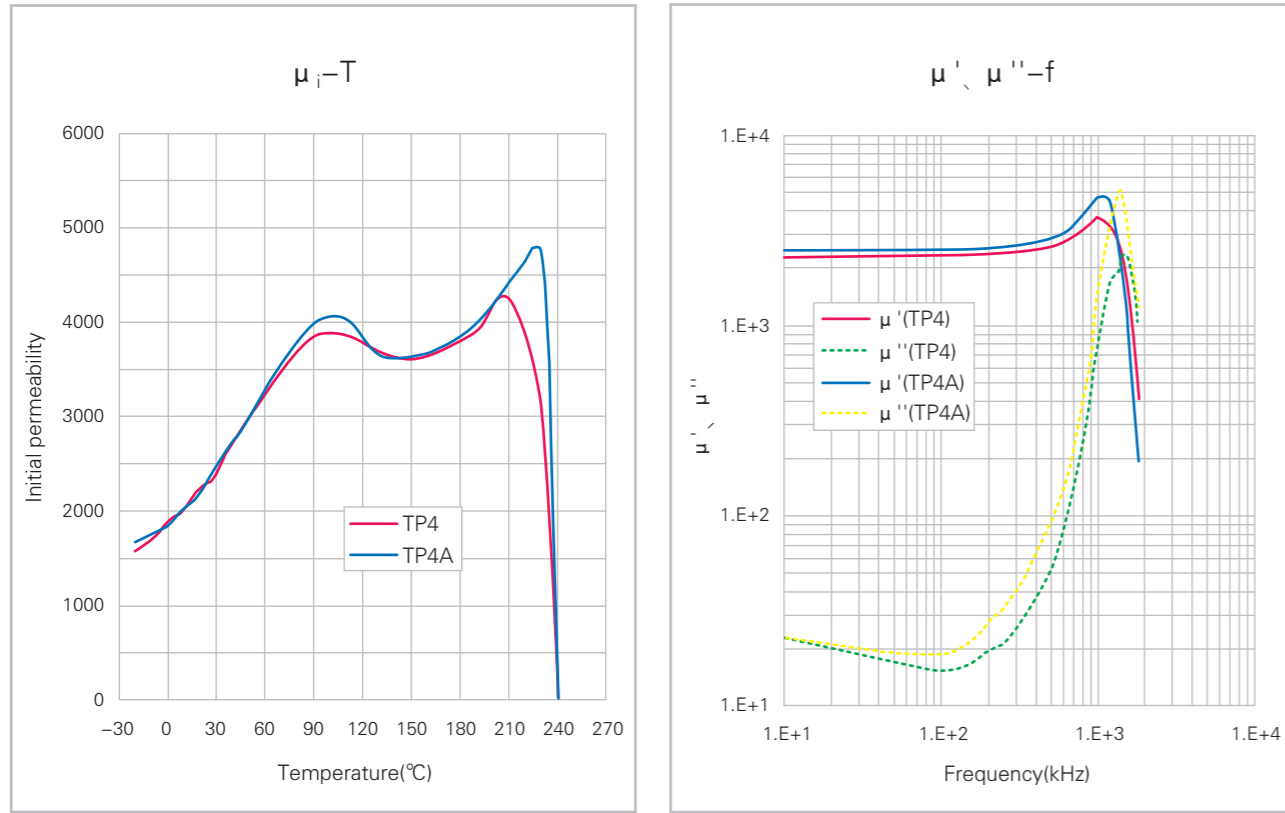
## 基本特性/Typical characteristics:

特性 Characteristics	测试条件 Measuring Conditions	单位 Unit	TP4	TP4A
起始磁导率 $\mu_i$ Initial Permeability	10KHz 25°C H < 0.4A/m	/	2300 ± 25%	2400 ± 25%
振幅磁导率 $\mu_a$ Amplitude Permeability	25°C 25KHz 200mT	/	≥3000	≥3000
饱和磁通密度Bs Saturation Flux Density	H=1194A/m	25°C 100°C mT	510 390	510 390
剩磁Br Remanence	25°C 100°C	mT	100 55	110 60
矫顽力Hc Coercivity	25°C 100°C	A/m	14 9	13 6.5
功率损耗Pcv Core Loss	100KHz 200mT	25°C 100°C 120°C Kw/m³	650 410 500	600 300 400
电阻率 $\rho$ Resistivity	/	$\Omega \cdot m$	6.5	6.5
居里温度Tc Curie Temperature	/	°C	≥220	≥215
密度d Density	/	kg/m³	4.8 × 10³	4.8 × 10³

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主要特性图表/Main characteristics graph:



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