

Ferrite for Switching Power Supplies

High Saturation Flux Density Material for Choke Coil PC33

PC33 has the best properties for smoothing choke coil of power supplies.

The saturation magnetic flux density of PC33 is far better than PC44 and PC40 which are currently in use.

FEATURES

- Higher saturation flux density than PC44 and PC40.
- Most suitable ferrite material for choke coils.
- Maintain high saturation magnetic flux density at high temperature.

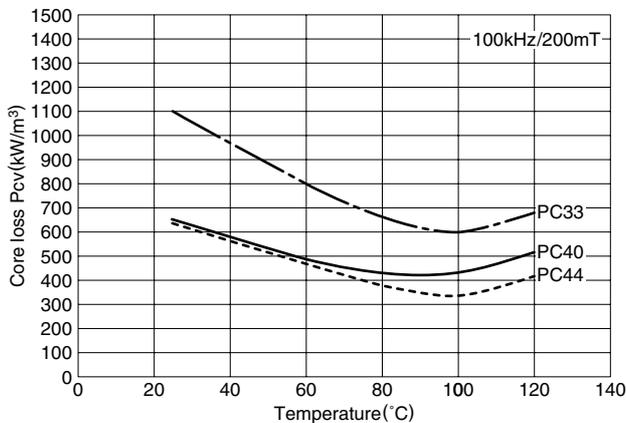
APPLICATIONS

- Power choke coils for switching power supplies
- Power choke coils for notebook type pc

MATERIAL CHARACTERISTICS

Material				PC33	PC44	PC40
Saturation magnetic flux density [1000A/m]	Bs	mT	25°C	510	510	510
			100°C	440	390	390
Initial permeability	μ		25°C	1400±25%	2400±25%	2300±25%
			25°C	1100	600	600
Core loss volume density [100kHz, 200mT]	Pcv	kW/m ³	25°C	800	400	450
			60°C	600	300	410
			100°C	600	300	410
Curie temperature	Tc	°C	min.	290	215	215
Density	db	kg/m ³		4.8×10 ³	4.8×10 ³	4.8×10 ³

P_{cv} TEMPERATURE DEPENDENCE CHARACTERISTICS (Typical)



B_s TEMPERATURE DEPENDENCE CHARACTERISTICS (Typical)

