

APPLICATION

- Power choke coils for Switching power supplies.
- Power choke coils for PC notebooks.

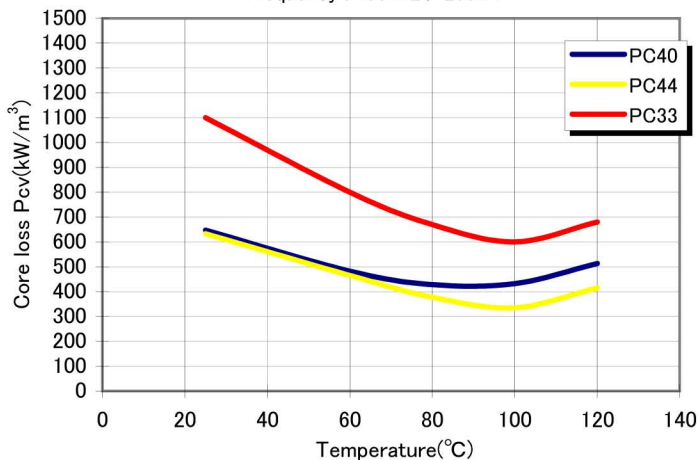


SPECIFICATION

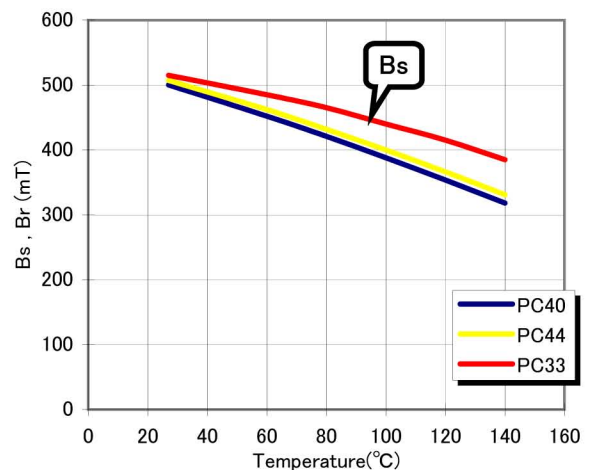
Material characteristics

Material			PC44	PC40
Saturation magnetic flux density at 1000A/m	β_s (mT)	25°C	510	510
		100°C	390	390
Initial permeability	μ_i	25°C	2400 ± 25%	2300 ± 25%
Core loss volume density at 100kHz,200mT	P_{cv} (kW/m ³)	25°C	600	600
		60°C	400	450
		100°C	300	410
Curie temperature	T_c (°C)	min.	215	215
Density	d_b (kg/m ³)		4.8X10 ³	4.8X10 ³

Temperature dependence of P_{cv} (Typical)
Materials : PC40 , PC44 and PC33
Frequency : 100kHz / 200mT



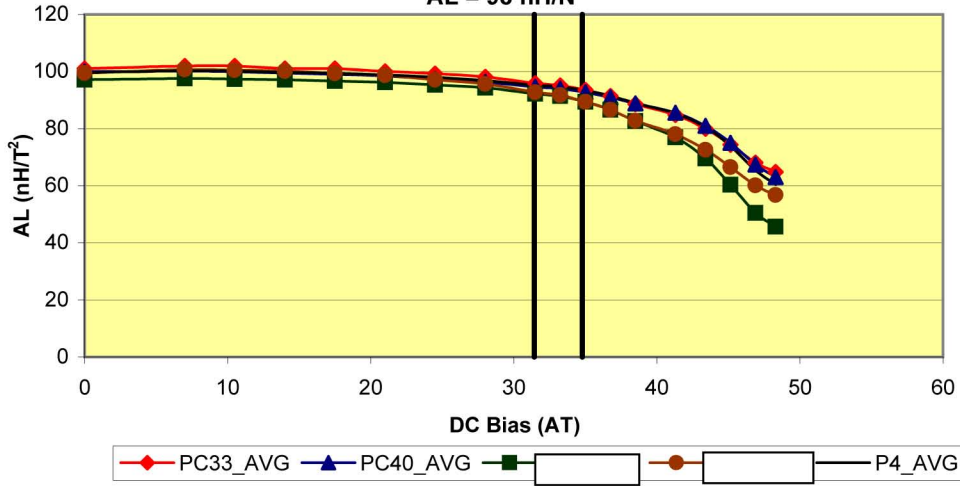
Temperature dependence of B_s
Materials : PC40 , PC44 , PC33 (Typical)



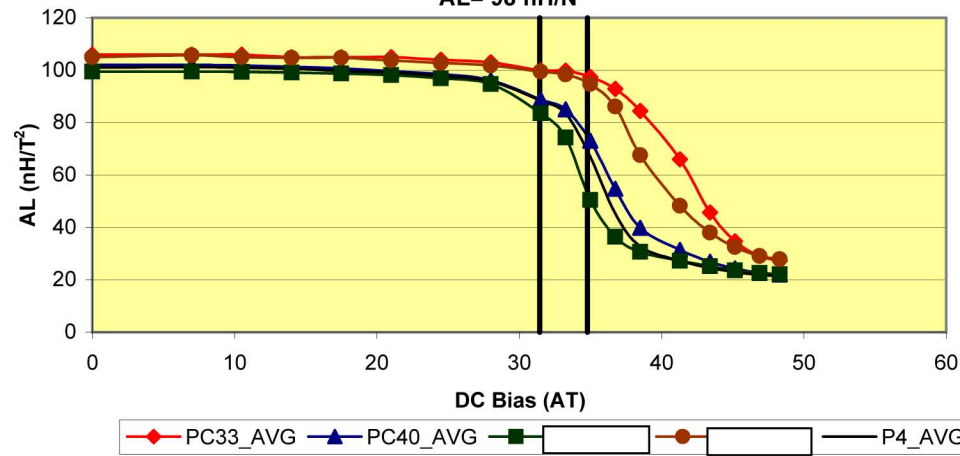
Saturation of Several Materials

Al versus NI Limit

ER11/5 at 25°C
AL = 98 nH/N²



ER11/5 at 100°C
AL = 98 nH/N²



ER11/5 at 120°C
AL = 98 nH/N²

