TDK Power Ferrite Material PC47, PC90 and PC95

Material			PC47	PC90	PC95
Initial permeability	μ_i	25 °C	2400±25%	2200±25%	3300±25%
Core loss volume density		25 °C	600	680	350.0
at 100kHz, 200mT		60 °C	400	470	300.0
Typical Values	P_{cv}(kW/m^3)	80 °C	300	380	280.0
		100 °C	250	320	290.0
		120 °C	360	400	350.0
Saturation magnetic flux density	β_s(mT)	25 °C	530	540	530.0
at 1000A/m		60 °C	480	510	480.0
Typical Values		100 °C	420	450	410.0
		120 °C	390	420	380.0
Remanent flux density	β_r(mT)	25 °C	180	170	85.0
Typical Values		60 °C	100		70.0
		100 °C	60	60	60.0
		120 °C	60		55.0
Curie temperature	T_c(°C)	min.	230	250	215
Density	ρ_b(kg/m^3)		4.9X10^3	4.9X10^3	4.9X10^3
Electrical Resistivity	ρv	Ω • M	4.0	4.0	6.0

Unless otherwise specify the tolerance, the values are shown as a typical.

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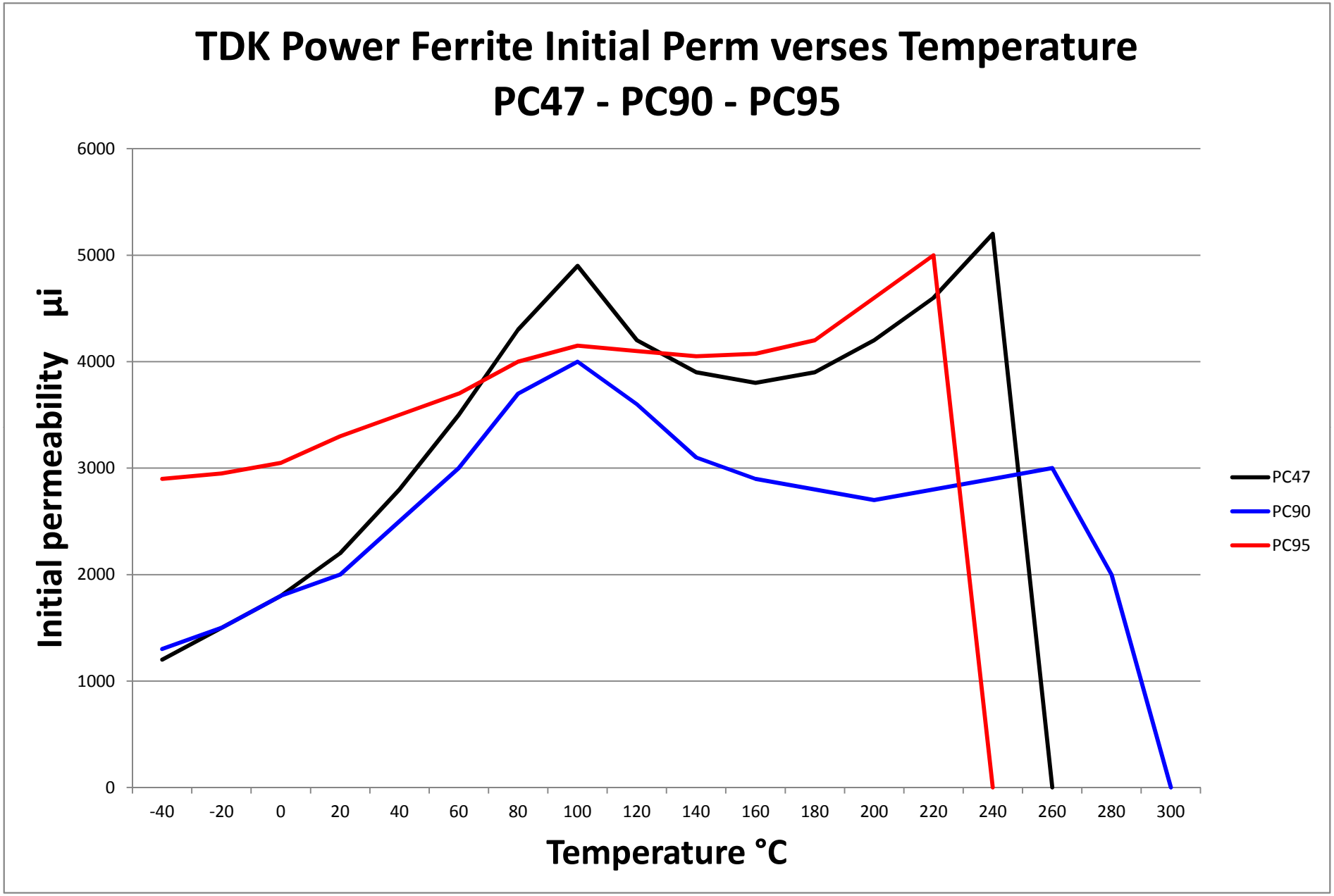
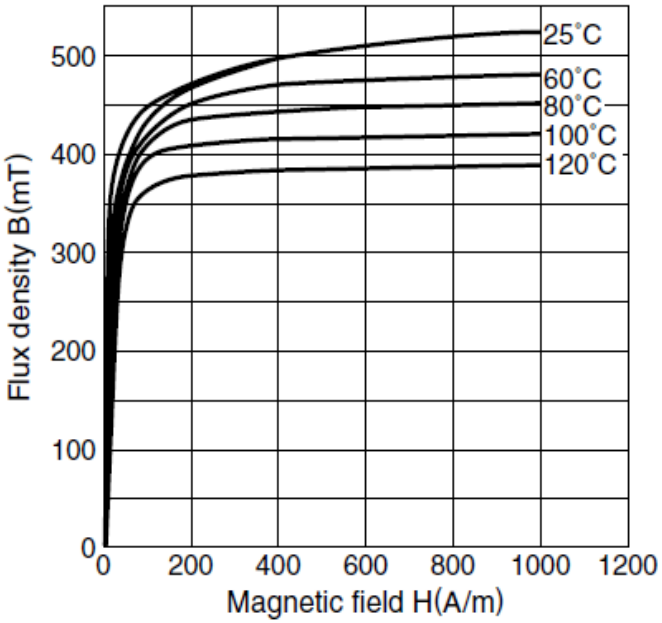
TDK Power Ferrite Initial Perm verses Temperature
PC47 - PC90 - PC95

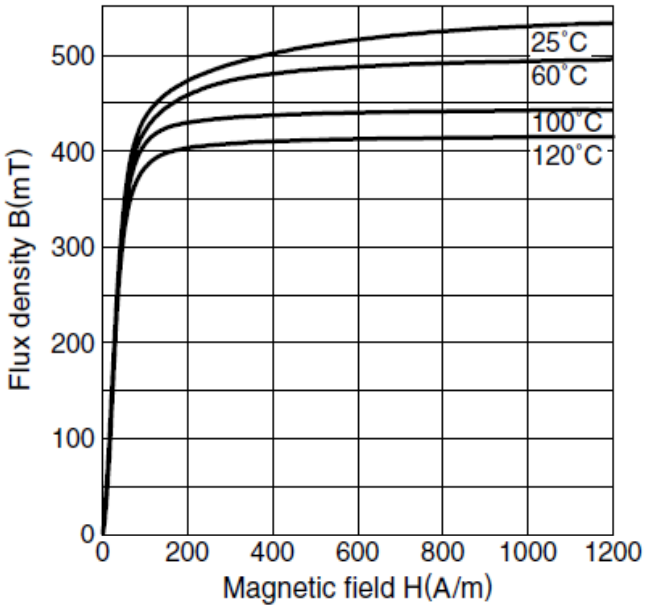


TDK Power Ferrite Magnetization Curves

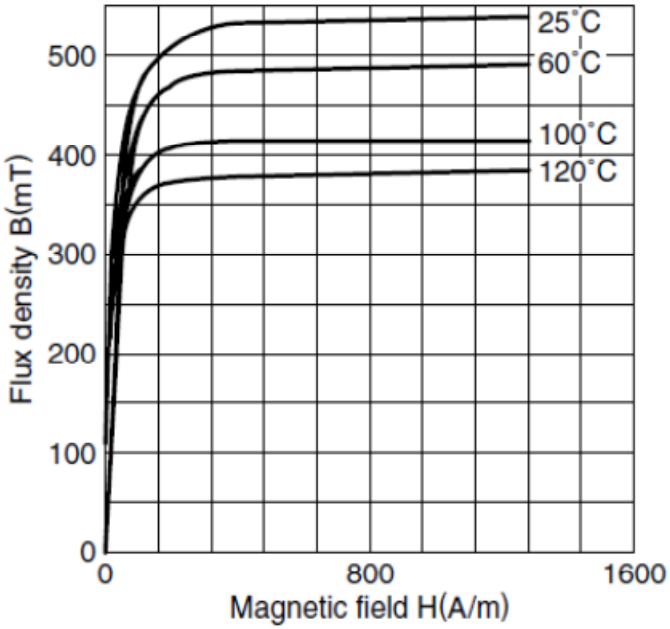
Material: PC47



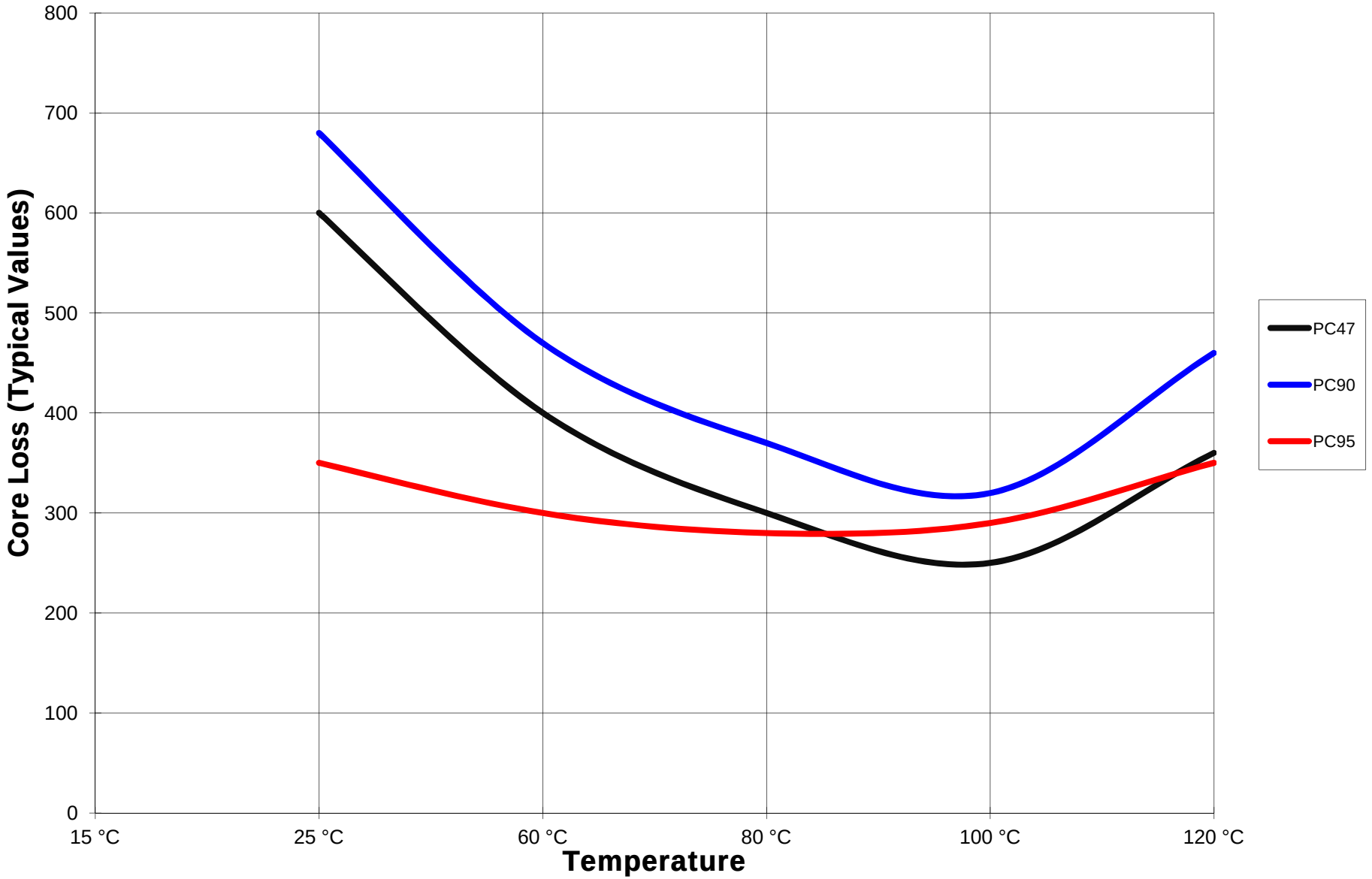
Material: PC90



Material: PC95



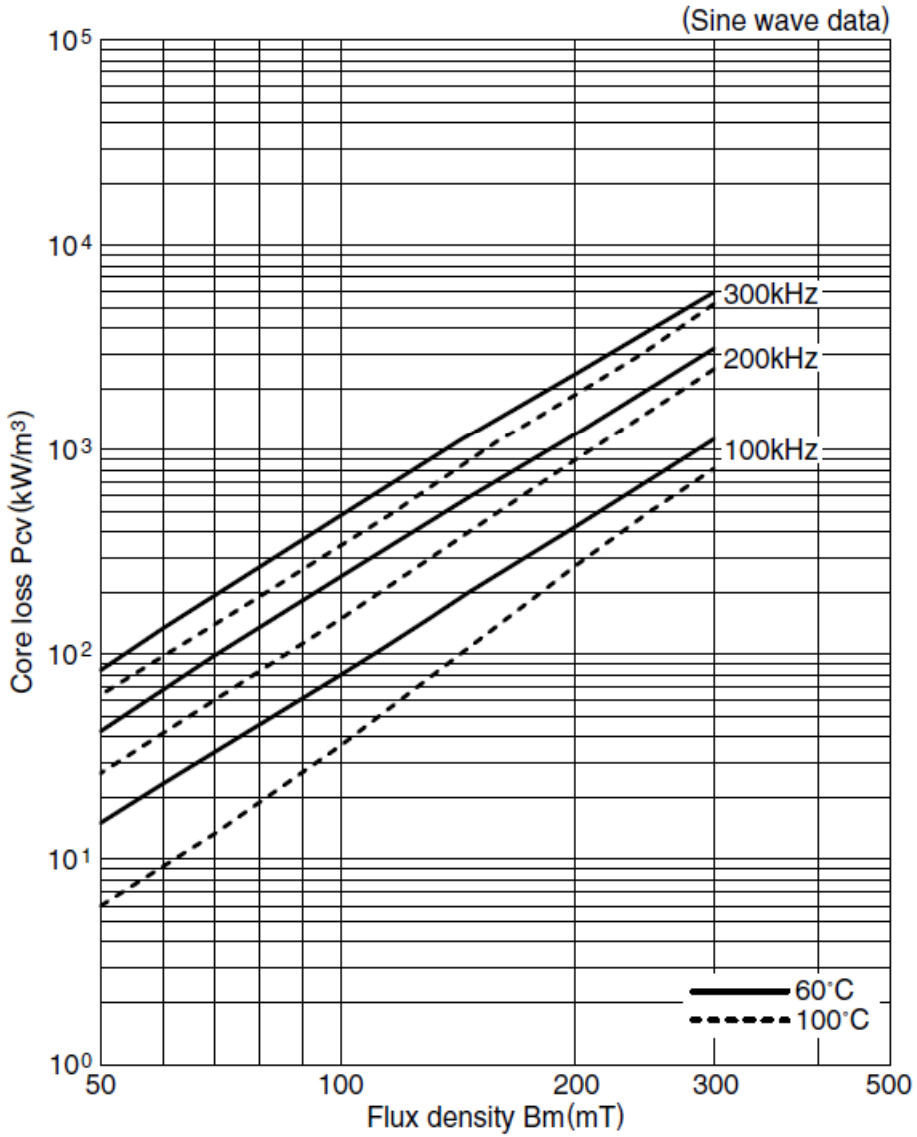
TDK Power Ferrite Core Loss Verses Temperature
PC47 - PC90 - PC95



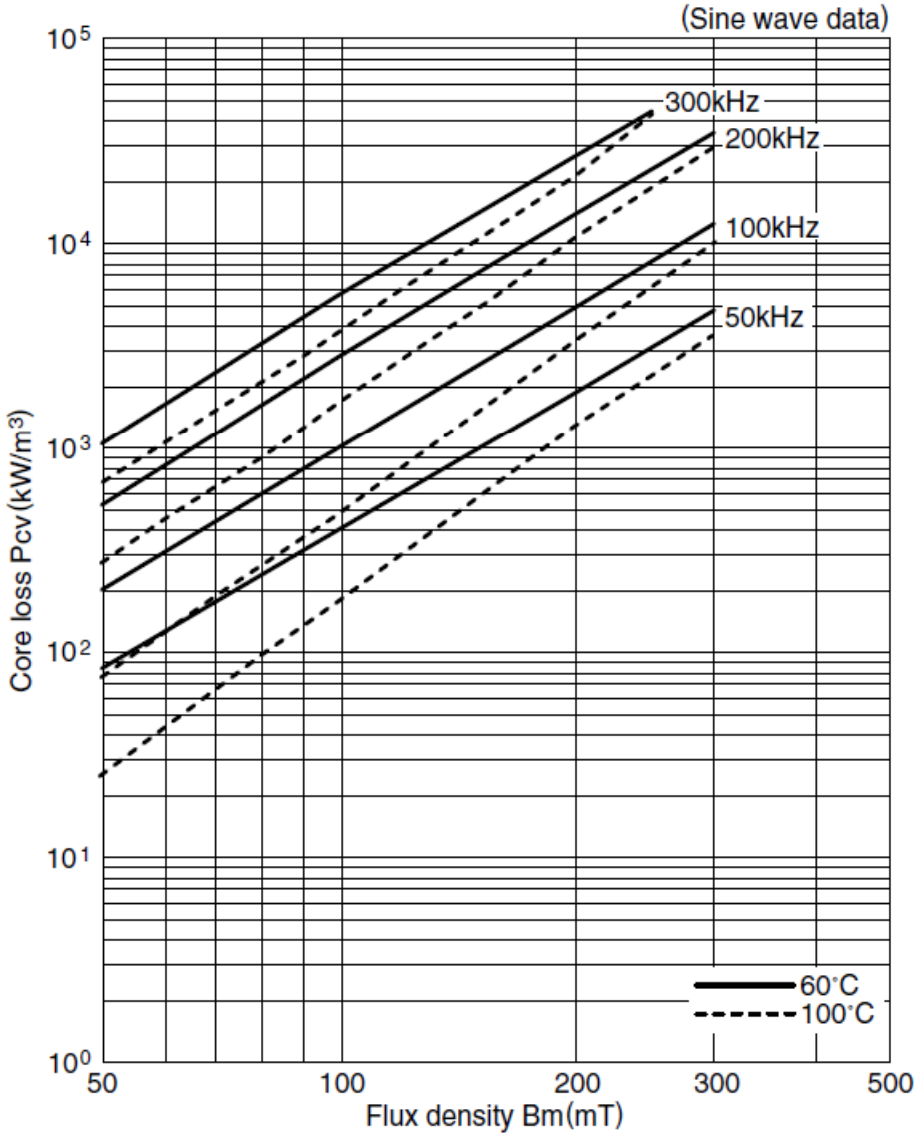
TDK Power Material Core Loss verses Flux Density verses Frequency

PC47 - PC90 - PC95

Material: PC47



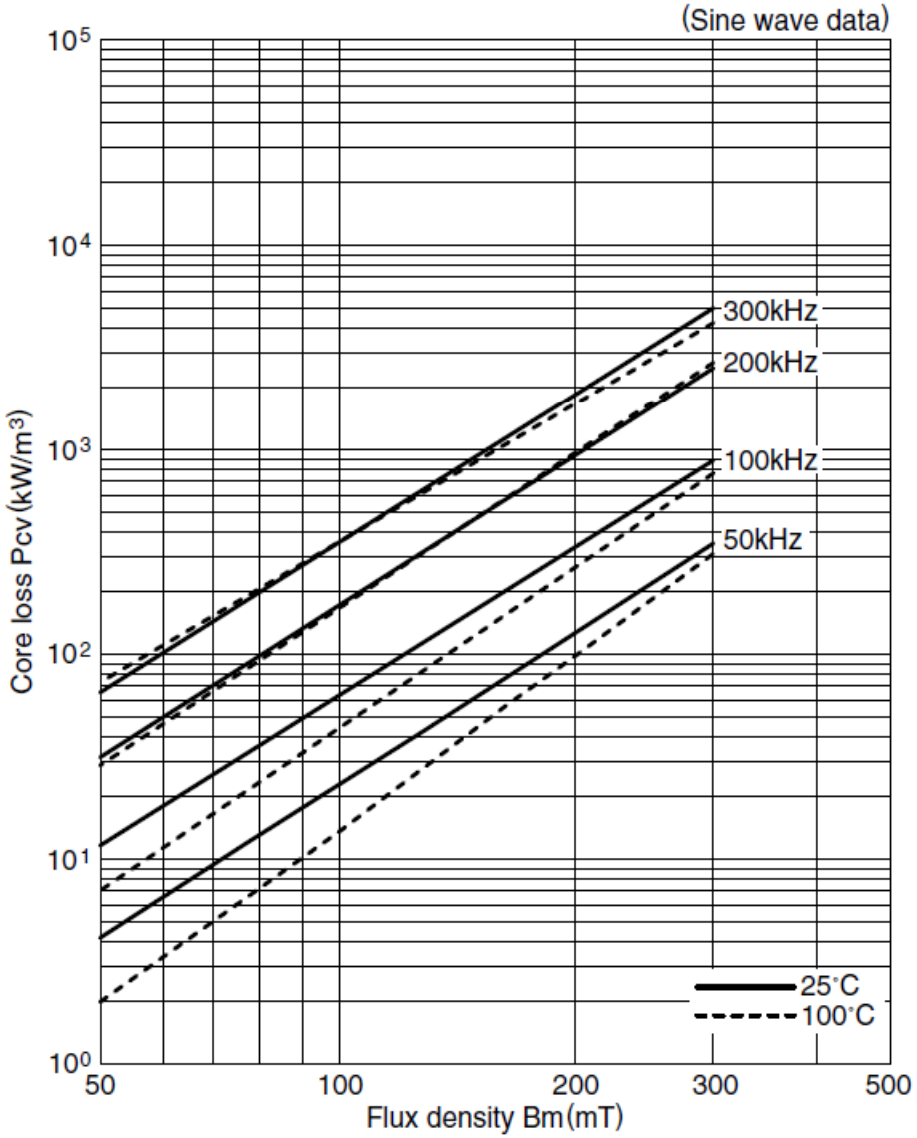
Material: PC90



TDK Power Material Core Loss verses Flux Density verses Frequency

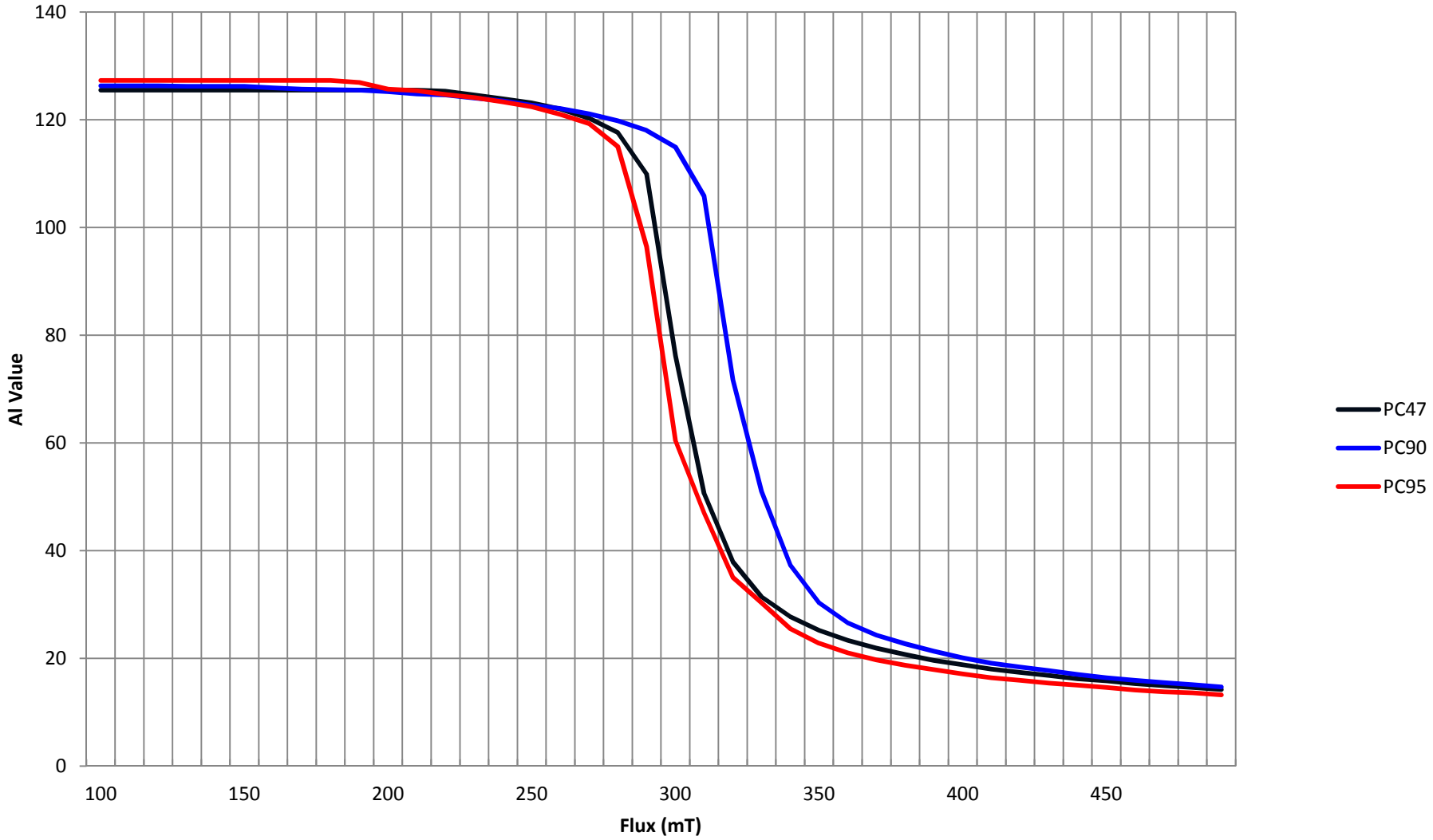
PC47 - PC90 - PC95

Material: PC95

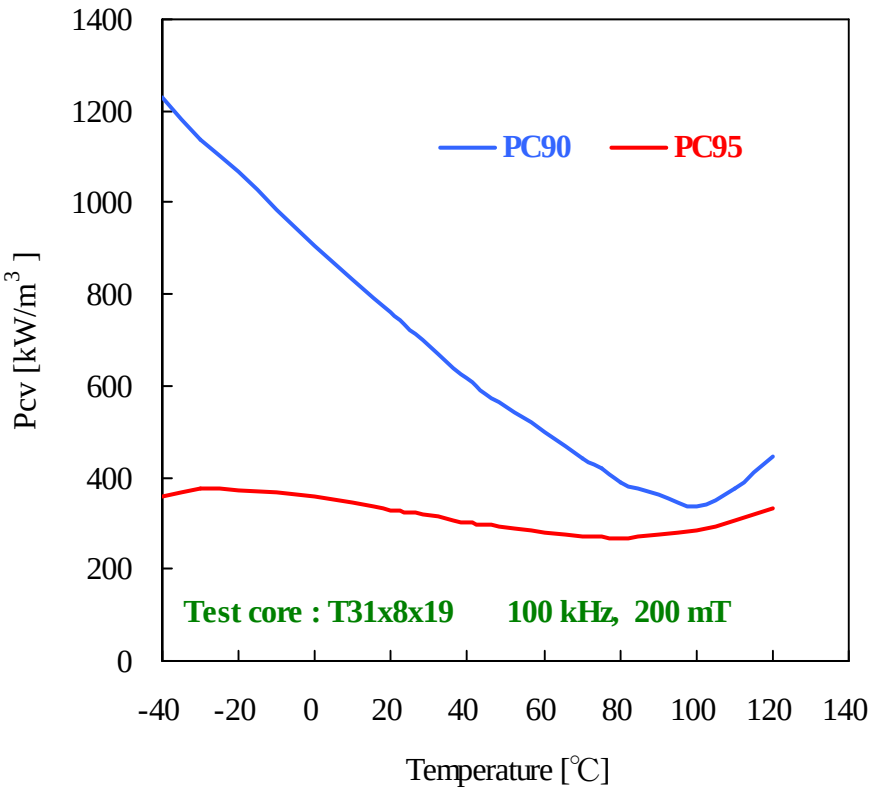


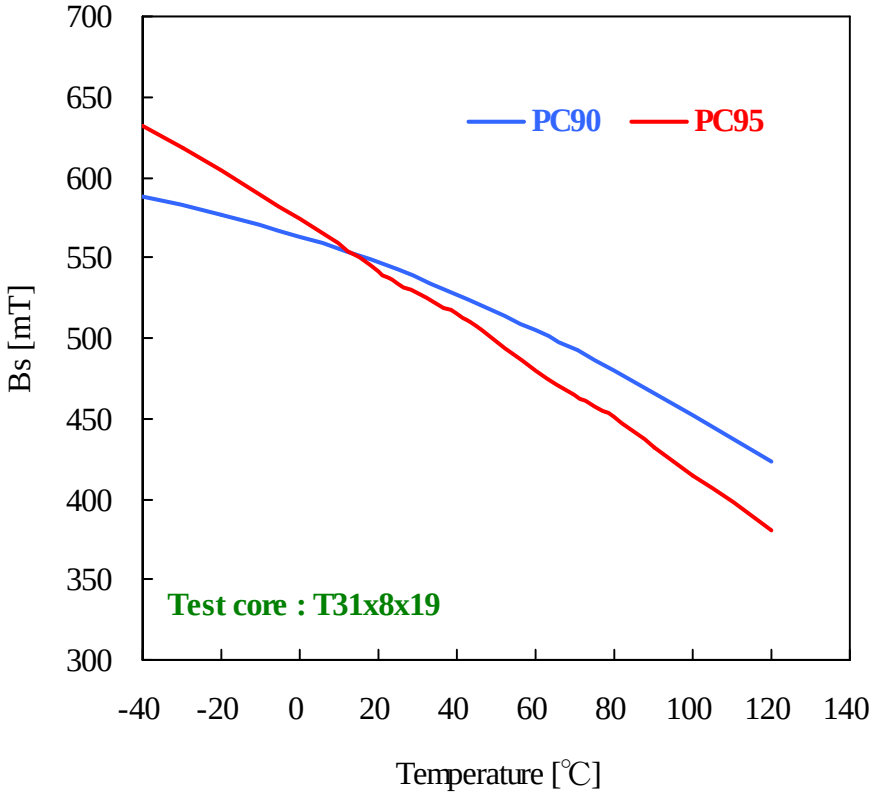
TDK Power Ferrite Saturation β_{sat}

PC47 - PC90 - PC95

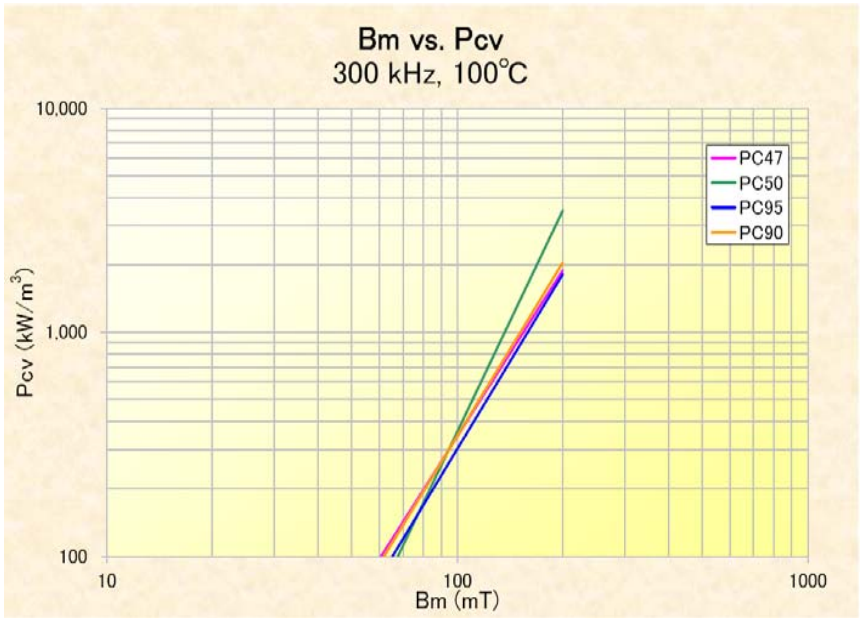


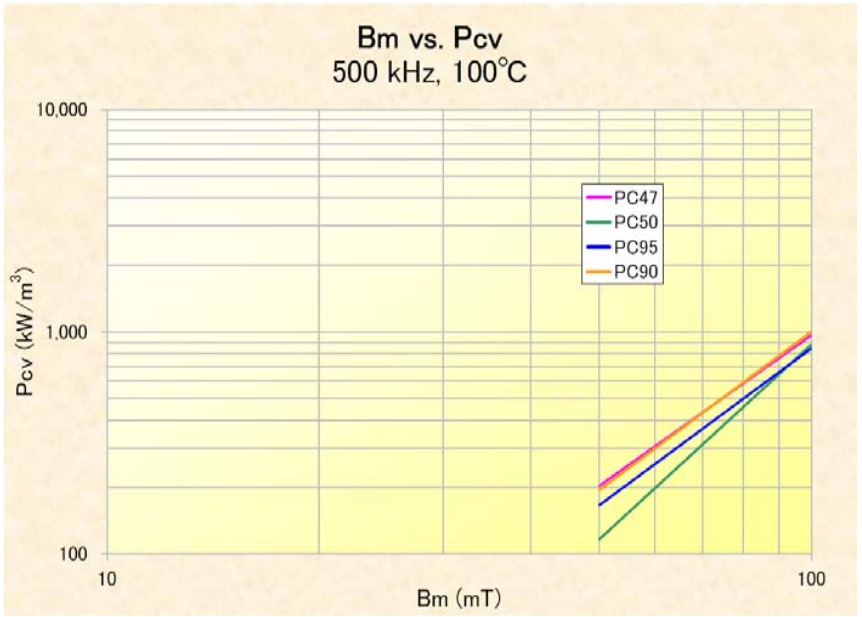
TDK PC90 - PC95 Wide Temperature Core Comparison

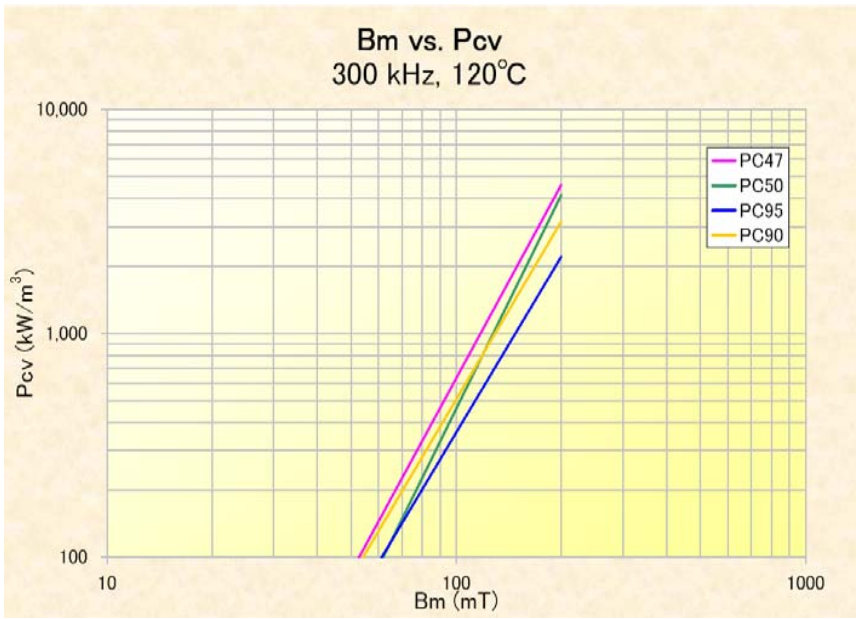


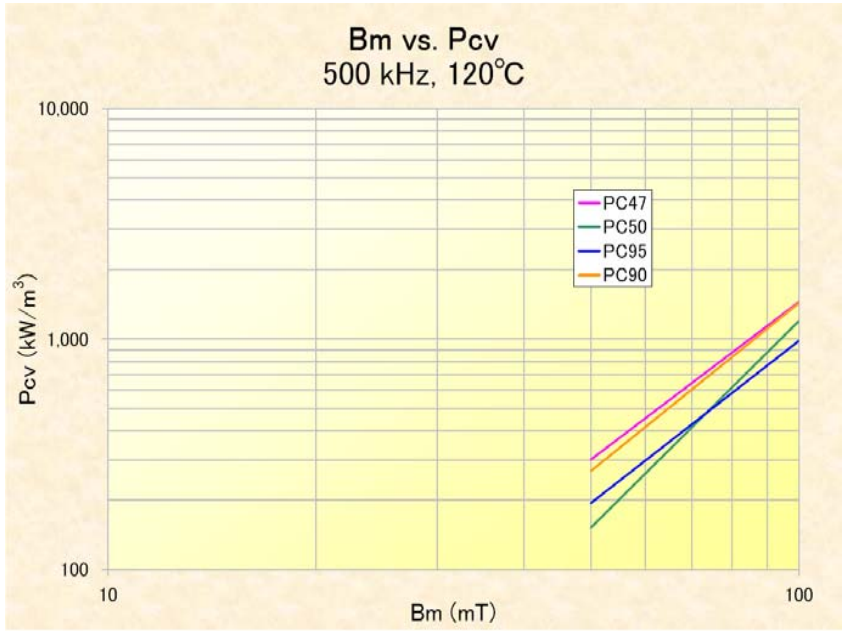


High Frequency - Core Loss vrs β_m Graphs of PC47 - PC50 - PC90 - PC95

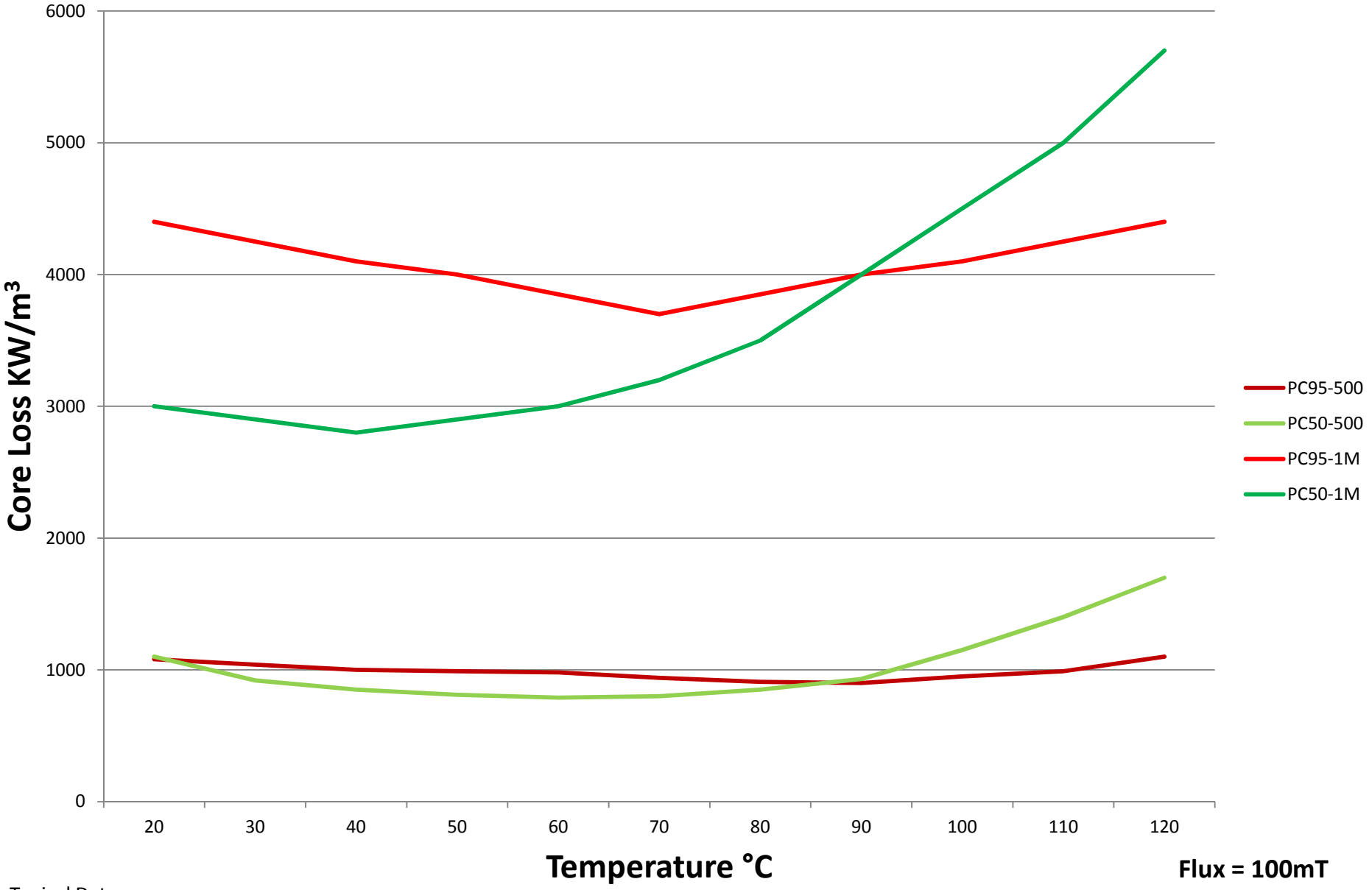








Power Ferrite Core Loss vrs Temperature
PC50 - PC95
500KHz & 1MHz



Typical Data