

Ferrite Cores

For High Power

High Power Cores

T, UU, EC, EIC, PQ, EE, EI, DT, SP Series

FEATURES

- Large size ferrite cores developed for reactors and transformers used in high power units.
- Please contact us for machinability of non-standard special forms.

MATERIAL CHARACTERISTICS (Typical)

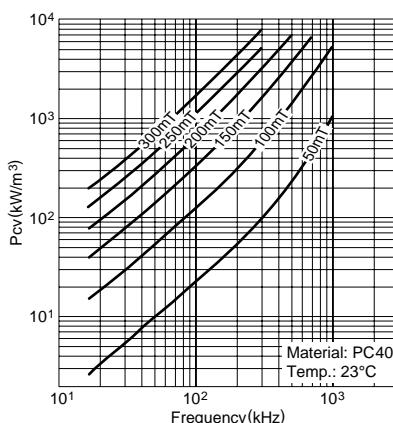
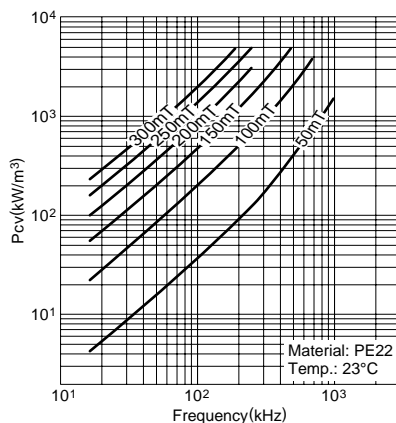
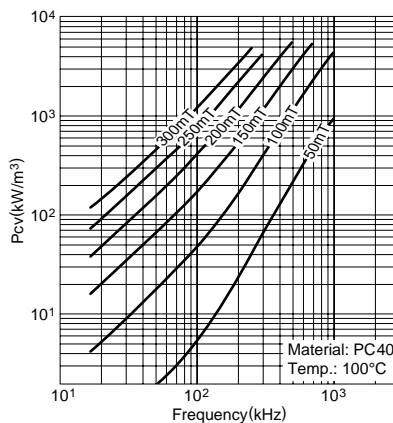
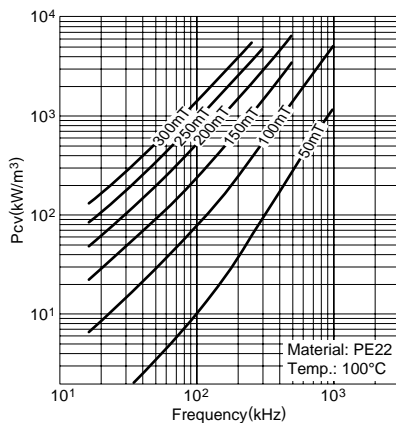
Material			PE22	PC40
Initial permeability	μ_i [23°C]		1800	2300
Curie temperature	T_c	°C	>200	>200
Saturation magnetic flux density H=1194A/m	B_s [23°C] [100°C]	mT	510 410	500 380
Remanent flux density	B_r [23°C]	mT	170	140
Coercive force	H_c [23°C]	A/m	16	15
Core loss	25kHz, 200mT	P_{cv} [100°C]	kW/m ³	80
	100kHz, 200mT			70
Electrical resistivity	ρ	$\Omega\cdot m$	3	6.5
Approximate density	d_{app}	kg/m ³	4.8×10^3	4.8×10^3
Thermal expansion coefficient	α	1/K	12×10^{-6}	12×10^{-6}
Thermal conductivity	κ	W/mK	5	5
Specific heat	C_p	J/kg • K	600	600
Bending strength	δb_3	N/m ²	9×10^7	9×10^7
Young's modulus	E	N/m ²	1.2×10^{11}	1.2×10^{11}
Magnetostriction	λ_s		-0.6×10^{-6}	-0.6×10^{-6}

• 1(mT)=10(G), 1(A/m)=0.012566(Oe)

CORE LOSS vs. FREQUENCY CHARACTERISTICS

MATERIAL: PE22

MATERIAL: PC40



CORE LOSS vs. TEMPERATURE CHARACTERISTICS

