

PC Material Data

■ PC

PC (=78% nickel permalloy) has the highest permeability and the lowest coercive force. It is used for cores for tape recorder heads, motor cases, and CRT shield covers.

■ PC-II

PC-II (= Special PC) is made from high quality nickel and iron with an aim to be drawn easily.

●Magnetic Characteristics of PC

Type	Initial permeability μ_i	Maximum permeability μ_m	Magnetic flux density B1000(T)	Coercive force Hc(A/m)	Resistance $\mu\Omega.m$
PC	40000~150000	120000~300000	0.65~0.70	0.8~1.5	Above 0.55
PC-II	100000~250000	250000~450000	0.65~0.70	0.8~1.5	Above 0.55
JIS	Above 30000	Above 100000	Above 0.65	Below 2.0	Above 0.55

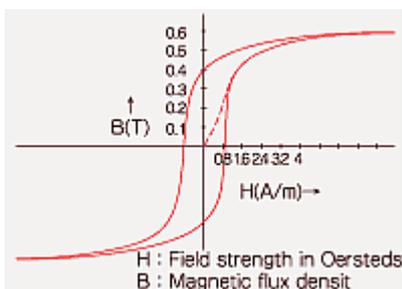
※ μ_i is the initial permeability at the field strength 0.4A/m.

●Effective permeability of PC

Type	Thickness (mm)	Specification	μ_L 0.3KHz	μ_L 1 KHz	μ_L 3KHz
PC	0.10	Nakano Standard	40000~60000	29000~40000	13000~16000
		JIS	Above 30000	Above 20000	Above 9000
	0.20	Nakano Standard	27000~36000	15000~18000	—
		JIS	Above 24000	Above 10000	—
	0.35	Nakano Standard	15000~21000	7000 ~ 9000	—
		JIS	Above 12000	Above 4800	—

※ Measuring current is 0.5mA.

●Hysteresis Curve of PC



●Inductance Curve of PC

