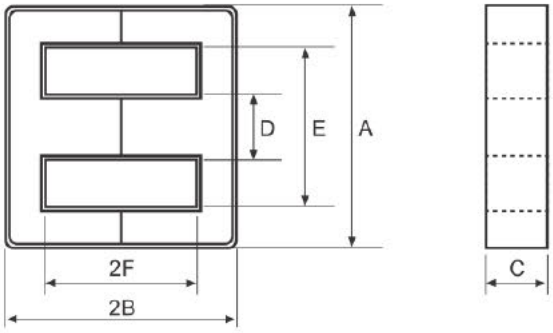
Patron Core EE10105,5 P4 G=0 AL=1850 unit

Patron
Passive Elektronic

■ DIMENSIONS AND EFFECTIVE PARAMETERS

	DIMENSIONS (mm)						EFFECTIVE PARAMETERS				
CORES	A	B	C	D	E	F	C1(mm^{-1})	Le(mm)	Ae(mm^2)	Ve(mm^3)	Wt(g/set)
EE10/10	10.20 ± 0.20	5.50 ± 0.10	9.85 ± 0.15	2.40 ± 0.15	7.80 ± 0.20	4.30 ± 0.10	1.11	26.36	23.64	623.10	3.32

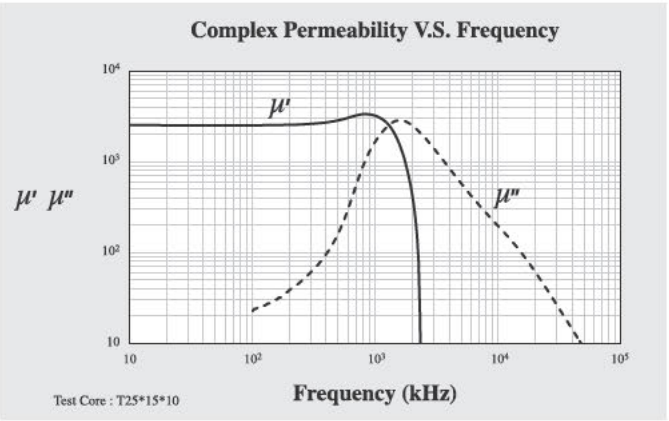
Shape:

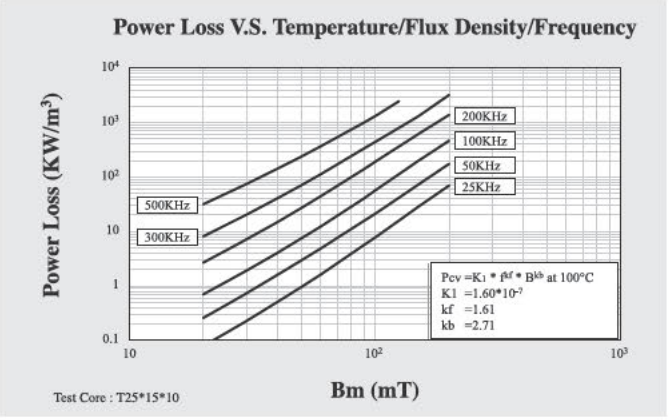


AL 1850 - Value Testing Condition : 10kHz, 50mV, 10Ts

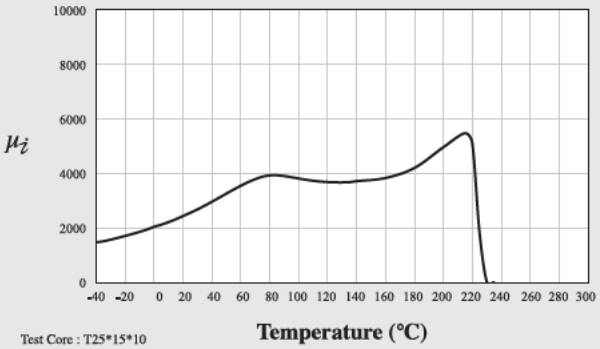
	Symbol	Unit	Measuring Conditions			Conventional Low Loss Material
			Freq.	Flux den.	Temp.	P4
Initial Permeability	μ_i		≤ 10kHz	0.25mT	25°C	2500 ± 25%
Amplitude Permeability	μ_a		25kHz	200mT	25°C	> 4500
					100°C	> 4500
Power Loss	Pv	KW/m^3	25kHz	200mT	25°C	105
					100°C	55
			100kHz	200mT	25°C	630
					100°C	450
			300kHz	100mT	25°C	660
					100°C	430
			500kHz	50mT	25°C	380
					100°C	330
Saturation Flux Density	Bs	mT	10kHz	H = 1200A/m	25°C	480
					100°C	380
Remanence	Br	mT	10kHz	H = 1200A/m	25°C	135
					100°C	75
Coercivity	Hc	A/m	10kHz	H = 1200A/m	25°C	14
					100°C	9
Hysteresis Material Constant	η_B	10^{-6}/mT	10kHz	1.5-3.0mT	25°C	< 1 2
Disaccommodation Factor	D_F	10^{-6}	10kHz	< 0 25 mT	25°C	< 2
Curie Temperature	Tc	°C				≥ 220
Resistivity	ρ	Ωm				5 50
Density	d	g/cm^3				4 80

Note: Material characteristics are typical for a toroid core.
Product specification will differ from these data due to the influence of geometry and size.



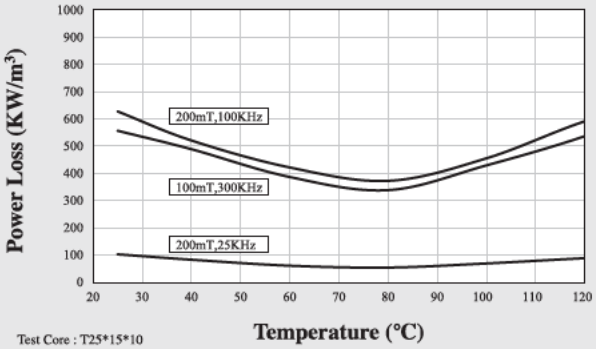


Initial Permeability V.S. Temperature



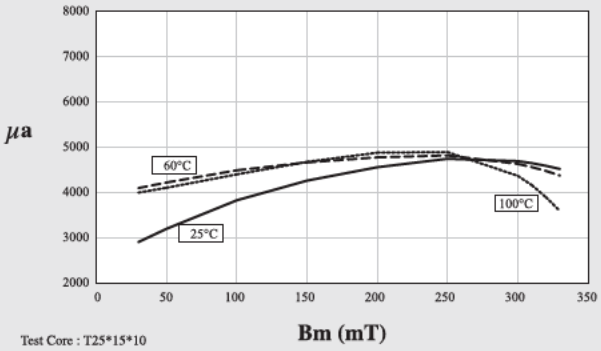
Test Core : T25*15*10

Power Loss V.S. Temperature



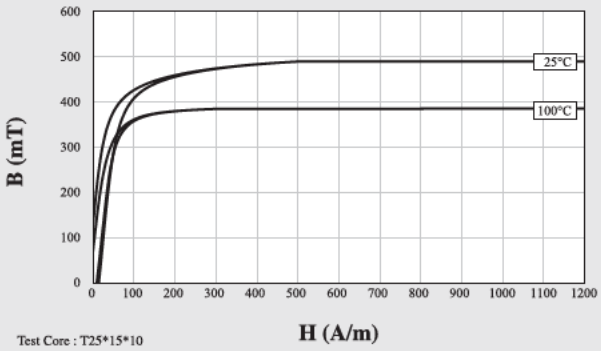
Test Core : T25*15*10

Amplitude Permeability V.S. Flux Density (Bm)



Test Core : T25*15*10

Saturation Flux Density V.S. Magnetic Field



Test Core : T25*15*10