

A low power loss material with high saturation. Designed for use at frequencies up to 350kHz. The power loss is minimised above 75°C. Typical applications include output chokes, SMPS and EHT cores.  
Core shapes available include ETD, E,EFD and RM.

PARAMETER	SYMBOL	Standard Conditions of test	UNIT	KM22
Initial Permeability (nominal)	$\mu_i$	$B < 0.1 \text{ mT}$ 10kHz 25 °C	-	2200 +/-20%
Saturation Flux Density (typical)	$B_{sat}$	$H = 796 \text{ A/m} = 10 \text{ Oe}$ 25 °C 100C	mT	500 490
Remanent Flux Density (typical)	$B_{rem}$	$H \rightarrow 0$ (from near saturation) 10kHz 25 °C	mT	270
Coercivity (typical)	$H_c$	$B \rightarrow 0$ (from near saturation) 10kHz 25 °C	A/m	27
Loss Factor (maximum)	$\frac{\tan \delta}{\mu_i}$	$B < 0.1 \text{ mT}$ 100kHz 25 °C	$10^{-3}$	----
Temperature Factor	$\frac{\Delta \mu}{\mu_i \Delta T}$	+25 °C to +55°C $B < 0.1 \text{ mT}$ 10kHz	$10^{-4}/\text{°C}$	----
Curie Temperature (minimum)	$t_c$	$B < 0.1 \text{ mT}$ 10kHz	°C	230
Hysteresis Material Constant (max)	$\eta_b$	$B$ from 1.5 to 3.0mT 10kHz 25 °C	$10^{-7} \text{ mT}$	----
Resistivity (typical)	$\rho$	1 V/cm 25 °C	ohm-cm	100
Amplitude Permeability (minimum)	$\mu_a$	400mT 25 °C 340mT 100C	----	2500 1900
Total Power Loss Density (maximum)	$P_v$	200mT; 25kHz 25 °C 200mT; 25kHz 100C 100mT; 100kHz 25 °C 100mT; 100kHz 100C 200mT; 100kHz 100C	mW/cc	200 130 250 160 750

