

KM 22 MATERIAL

PARAMETER	SYMBOL	Standard Conditions of test	UNIT	KM22
Initial Permeability (nominal)	μ_i	B < 0.1 mT 10kHz 25 °C		2200 +/-20%
Saturation Flux Density (typical)	B_{sat}	H = 796 A/m = 10 Oe 25 °C 100C	mT	500 400
Remanent Flux Density (typical)	B_{rem}	from near saturation) 10kHz 25 °C	mT	270
Coercivity (typical)	H_c	from near saturation) 10kHz 25 °C	A/m	27
Loss Factor (maximum)	$\frac{\tan \delta}{i}$	B < 0.1 mT 100kHz 25 °C	10^6	-----
Temperature Factor	$\frac{\mu}{\mu_i}$	+25 C to +55C B < 0.1 mT 10kHz	$10^3/\text{°C}$	-----
Curie Temperature (minimum)	t_c	B < 0.1 mT 10kHz	°C	230
Hysteresis Material Constant (max)	B	B from 1.5 to 3.0 mT 10kHz 25 °C	$10^7/\text{mT}$	-----
Resistivity (typical)		1 V/cm 25 °C	ohm-cm	100
Amplitude Permeability (minimum)	μ_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

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.

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