F₅A

Material Type: Manganese-Zinc Ferrite

Properties: *Higher permeability power

grade

*High saturation

*Low loss

*Losses minimised 50°C - 80°C

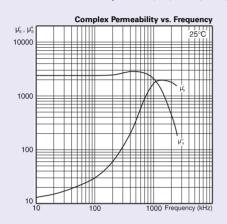
Frequency range: Up to 150/200kHz (depending

upon flux density)

Typical Applications: Power Supplies, EHT

Transformers.

Available core shapes: E, U, ETD, RM, Ring Cores.





| Material openioation | | | | | |
|--|------------------|-----------------------------------|----------------|------------|--------------|
| Parameter | Symbol | Standard Conditions of test | | Unit | F5A |
| Initial Permeability (nominal) | - | B<0.1mT 10kHz | 25°C | - | 2500 ±20% |
| Saturation Flux Density (typical) | B _{sat} | H=796 A/m = 10 Oe | 25°C 100°C | mT | 470 350 |
| Remanent Flux Density (typical) | B _r | H→ 0 (from near Saturat 10kHz | ion) 25°C | mT | 150 |
| Coercivity (typical) | H _c | B→ 0 (from near Saturati 10kHz | ion) 25°C | A/m | 15 |
| Curie Temperature (minimum) | $\Theta_{\rm c}$ | B<0.10mT | 10kHz | °C | 200 |
| Resistivity (typical) | ρ | | 1 V/cm 25°C | ohm- cm | 100 |
| Amplitude Permeability (minimum) | μ _a | 400mT 320mT | 25°C 100°C | - | 2400 1825 |
| Total Power Loss Density (maximum) | P _v | 200mT; 25kHz 200mT;25kHz | 60°C 100°C | mW/ cm³ | 190 190 |

