3S3 SPECIFICATIONS

This wideband EMI-suppression material is specified on impedance and optimized for frequencies from 30 to 1000 MHz in applications with high bias currents at elevated temperatures (e.g. rods for chokes in commutation motors).

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤10 kHz; 0.25 mT	≈ 350	
B	25 °C; 10 kHz; 1200 A/m	≈ 320	mT
	100 °C; 10 kHz; 1200 A/m	≈ 270	
$\lvert Z \rvert$ (1)	25 °C; 30 MHz	≥ 25	Ω
	25 °C; 100 MHz	≥ 60	
	25 °C; 300 MHz	≥ 100	
ρ	DC; 25 °C	≈ 10^4	Ωm
T_C		≥ 225	°C
density		≈ 4800	kg/m^3

Note

1. Measured on a bead ∅5 × ∅2 × 10 mm.

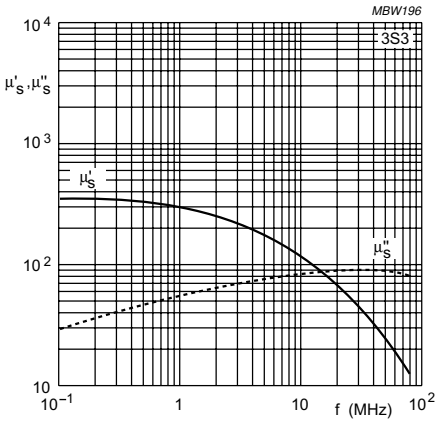

Fig.1 Complex permeability as a function of frequency.

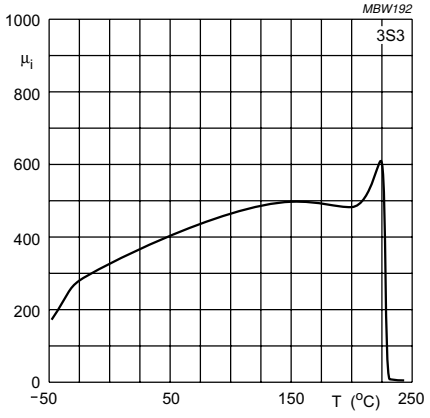

Fig.2 Initial permeability as a function of temperature.

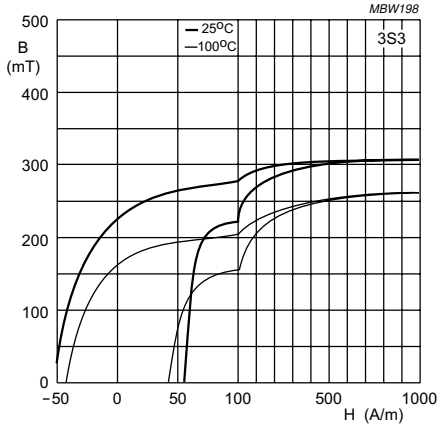

Fig.3 Typical B-H loops.

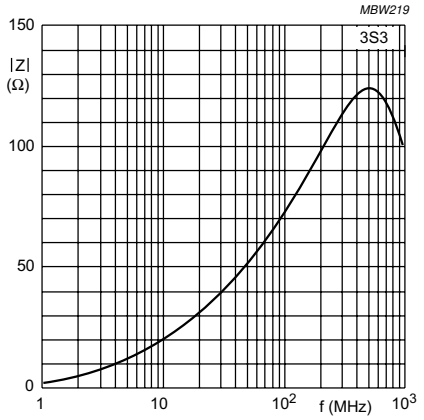

Fig.4 Impedance as a function of frequency measured on a bead ∅5 × ∅2 × 10 mm.