

Material specification

3B1

3B1 SPECIFICATIONS

Medium permeability MnZn ferrite for use in wideband EMI-suppression (10 - 100 MHz) as well as RF tuning, wideband and balun transformers.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	$900 \pm 20\%$	
B	25 °C; 10 kHz; 1200 A/m 100 °C; 10 kHz; 1200 A/m	≈ 380 ≈ 230	mT
$\tan\delta/\mu_i$	25 °C; 450 kHz; 0.25 mT	$\leq 50 \times 10^{-6}$	
ρ	DC; 25 °C	≈ 0.2	Ωm
T_C		≥ 150	°C
density		≈ 4800	kg/m^3

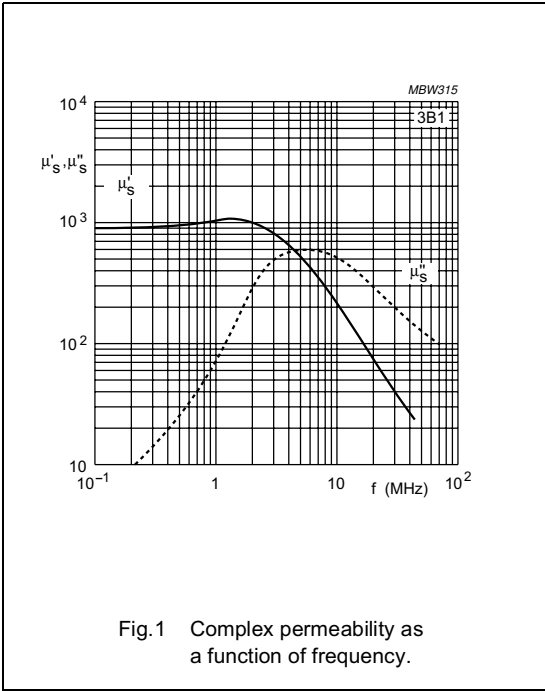


Fig.1 Complex permeability as a function of frequency.

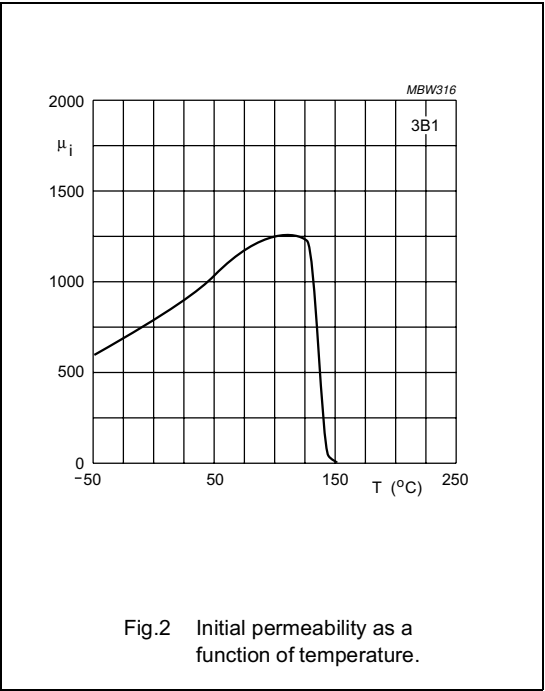


Fig.2 Initial permeability as a function of temperature.

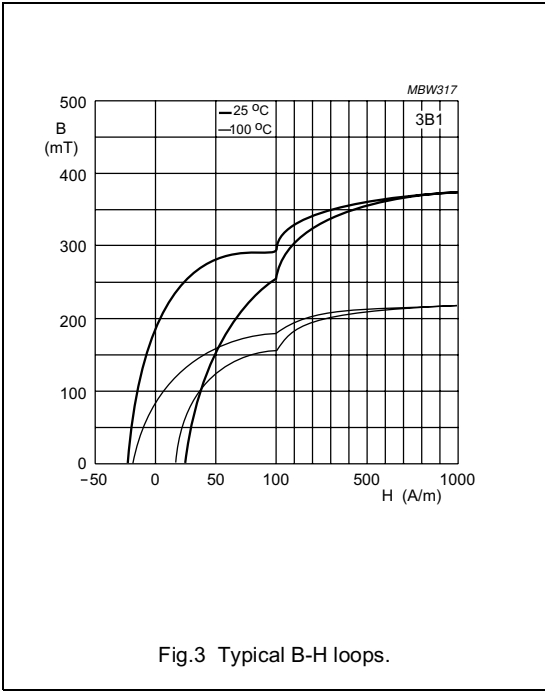


Fig.3 Typical B-H loops.