MATERIAL CHARACTERISTICS

D1B

TERM	SYMBOL	CONDITIONS	VALUE	UNIT
Initial Permeability	μ i	10kHz 25 °C	350 ± 25%	
Maximum Magnetic Flux Density	Bm	10 Oe 25 °C	3550	Gauss
Residual Magnetic Flux Density	Br	25 °C	2500	Gauss
Coercive Force	Hc		0.40	Oe
Relative Loss Factor	tan δ / μi	25 °C	250 MHz	10^{-6}
Electrical Resistivity	ρ	DC 25 °C	≥10^{8}	Ωcm
Temperature Coefficient	αμr	20 °C - 80 °C	≤ 6.25	$10^{-6}K^{-1}$
Curie Temperature	Tc		>170	°C
Density	ρ		5000	kg/m^3

CHARACTERISTICS :
- High Bs
- Temperature stability of inductance

APPLICATIONS :
- Power inductor applications
- EMI Suppression
- dc- Superimposition application

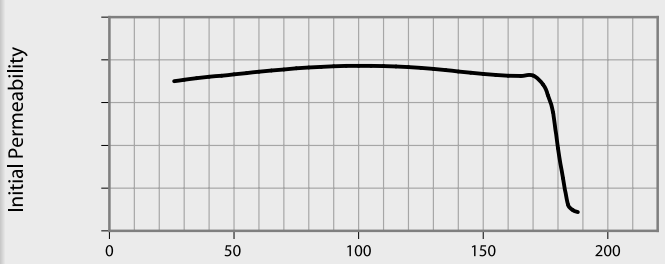
Test Core Size : T 20 x 12 x 10

Winding Method : Ø0.3~2μEW~10 Ts for Permeability, RLF, Q
Ø0.3~2μEW~5 Ts for Impedance

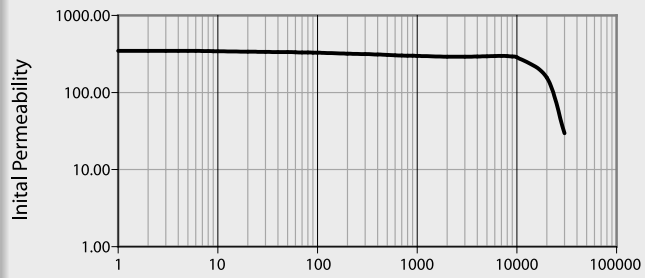
Test Frequency : 10kHz

Test Equipment : HP-4194A / HP-4284A / HP4286A / HP-4287A

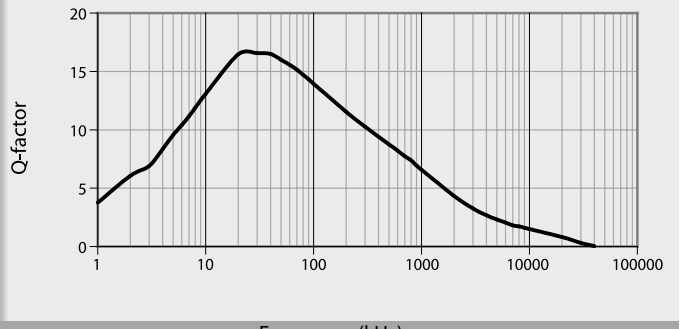
Initial Permeability vs.Temperature



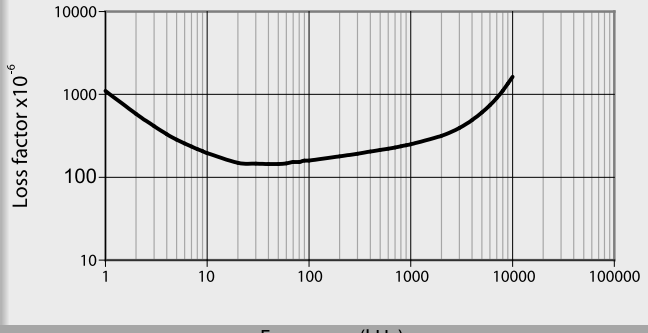
Initial Permeability vs. Frequency



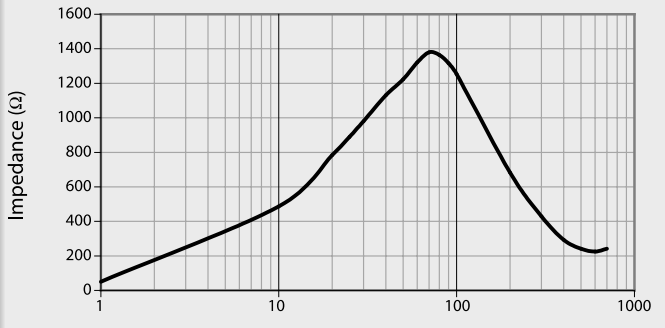
Q factor vs. Frequency



Loss factor vs. Frequency



Impedance vs. Frequency



B-H Curve