

MATERIAL CHARACTERISTICS

D35



| TERM | SYMBOL | CONDITIONS | VALUE | UNIT |
|--------------------------------|-----------------------|------------------|-------------|-------------------------|
| Initial Permeability | μ_i | 10kHz 25 °C | 1100 ± 25% | |
| Maximum Magnetic Flux Density | Bm | 10 Oe 25 °C | 2700 | Gauss |
| Residual Magnetic Flux Density | Br | 25 °C | 950 | Gauss |
| Coercive Force | Hc | | 0.34 | Oe |
| Relative Loss Factor | $\tan \delta / \mu_i$ | 25 °C 0.1 MHz | 20 | 10^{-6} |
| Electrical Resistivity | ρ | DC 25 °C | $\geq 10^8$ | Ωcm |
| Temperature Coefficient | $\alpha_{\mu r}$ | 20 °C - 80 °C | ≤ 2 | 10^{-6}K^{-1} |
| Curie Temperature | Tc | | >120 | °C |
| Density | ρ | | 5000 | kg/m^3 |

CHARACTERISTICS :

- High permeability

APPLICATIONS :

- Antenna applications
- EMI Suppression

Test Core Size :

T 20 x 12 x 10

Winding Method :

$\varnothing 0.3 \sim 2\mu\text{EW} \sim 10 \text{ Ts}$ for Permeability, RLF, Q
 $\varnothing 0.3 \sim 2\mu\text{EW} \sim 5 \text{ Ts}$ for Impedance

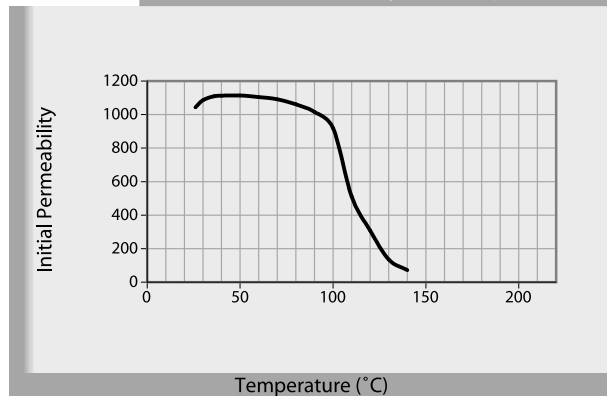
Test Frequency :

10kHz

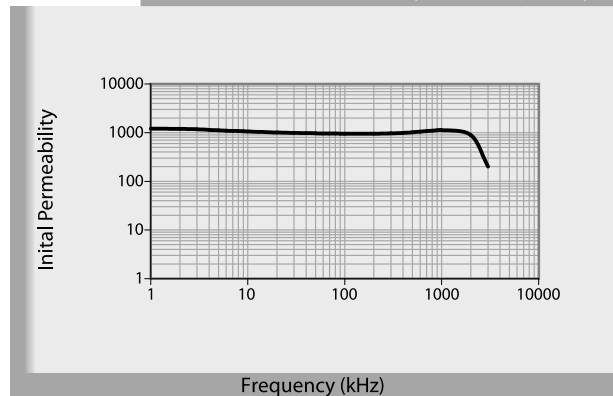
Test Equipment :

HP-4194A / HP-4284A / HP4286A / HP-4287A

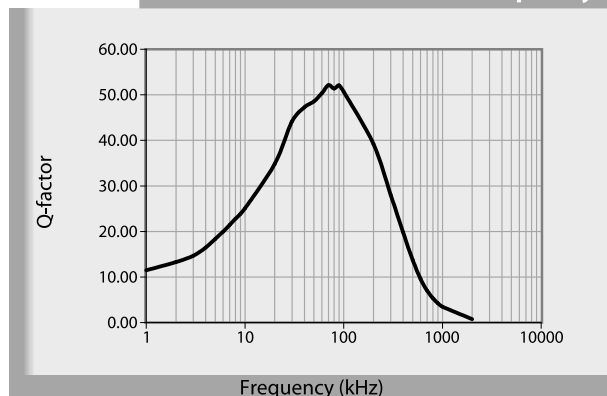
Initial Permeability vs. Temperature



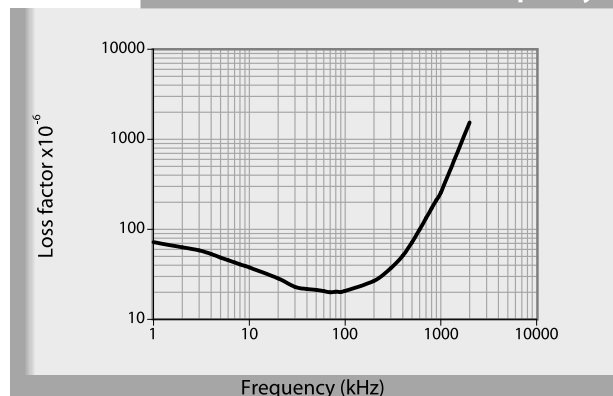
Initial Permeability vs. Frequency



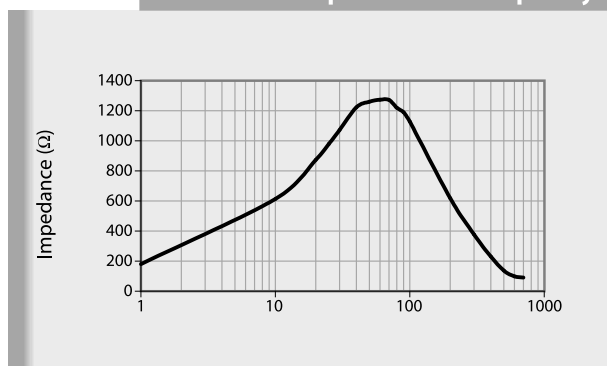
Q factor vs. Frequency



Loss factor vs. Frequency



Impedance vs. Frequency



B-H Curve

