MATERIAL CHARACTERISTICS

D30

TERM	SYMBOL	CONDITIONS	VALUE	UNIT
Initial Permeability	μ i	10kHz 25 °C	1000 ± 25%	
Maximum Magnetic Flux Density	Bm	10 Oe 25 °C	3400	Gauss
Residual Magnetic Flux Density	Br	25 °C	1775	Gauss
Coercive Force	Hc		0.20	Oe
Relative Loss Factor	tan δ / μi	25 °C	35 0.1 MHz	10^{-6}
Electrical Resistivity	ρ	DC 25 °C	$\geq 10^{8}$	Ωcm
Temperature Coefficient	αμr	20 °C - 80 °C	≤ 6	$10^{-6} K^{-1}$
Curie Temperature	Tc		>140	°C
Density	ρ		5000	kg/m^3

CHARACTERISTICS :
- High permeability
- Mechanical Stress resistant

APPLICATIONS :
- Antenna applications
- EMI Suppression
- Paralyne Coated products

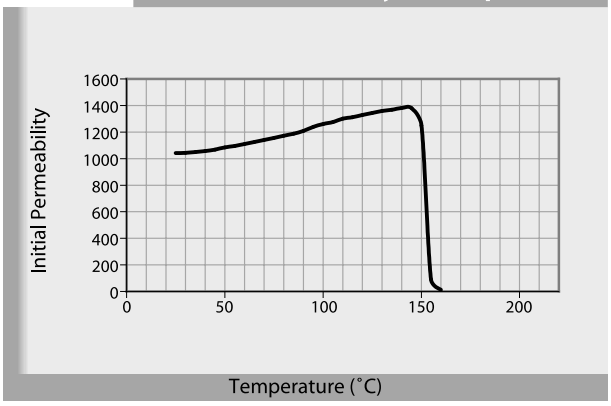
Test Core Size : T 20 x 12 x 10

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

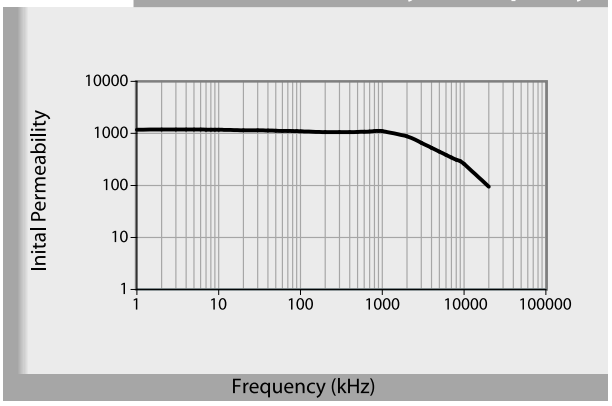
Test Frequency : 10kHz

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

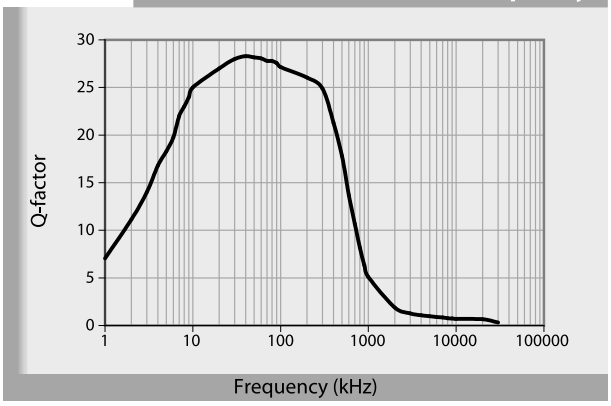
Initial Permeability vs.Temperature



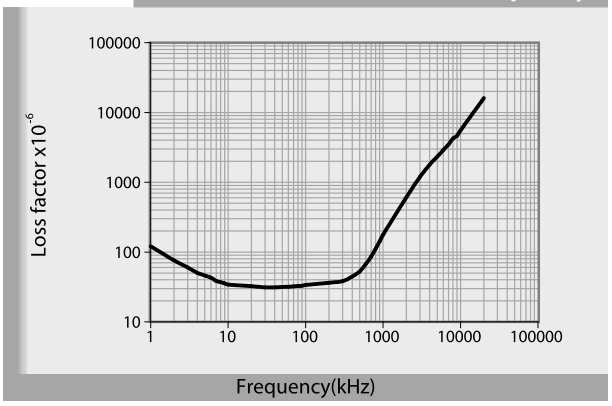
Initial Permeability vs. Frequency



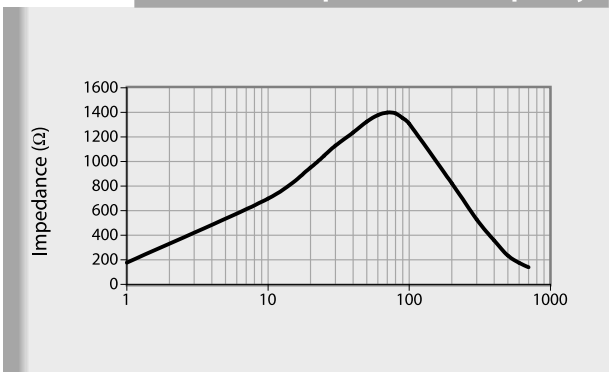
Q factor vs. Frequency



Loss factor vs. Frequency



Impedance vs. Frequency



B-H Curve