MATERIAL CHARACTERISTICS

D34

TERM	SYMBOL	CONDITIONS	VALUE	UNIT
Initial Permeability	μ i	10kHz 25 °C	1000 ± 25%	
Maximum Magnetic Flux Density	Bm	10 Oe 25 °C	3000	Gauss
Residual Magnetic Flux Density	Br	25 °C	1500	Gauss
Coercive Force	Hc		0.45	Oe
Relative Loss Factor	tan δ / μi	25 °C	18 0.1 MHz	10^{-6}
Electrical Resistivity	ρ	DC 25 °C	$>10^{6}$	Ωcm
Temperature Coefficient	αμr	20 °C - 80 °C	1.35	$10^{-6}\,K^{-1}$
Curie Temperature	Tc		130	°C
Density	d		5000	kg/m^3

CHARACTERISTICS :
- High Tc
- Low temperature coeffecient of permeability

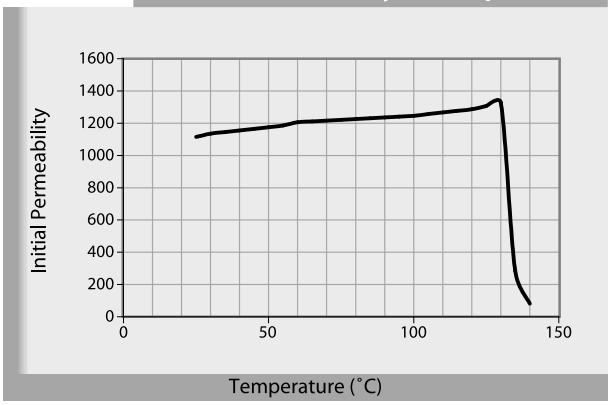
APPLICATIONS :
- High frequency inductors
- EMI Suppression
- Temperature stable antenna

Test Core Size : T 20 x 12 x 10

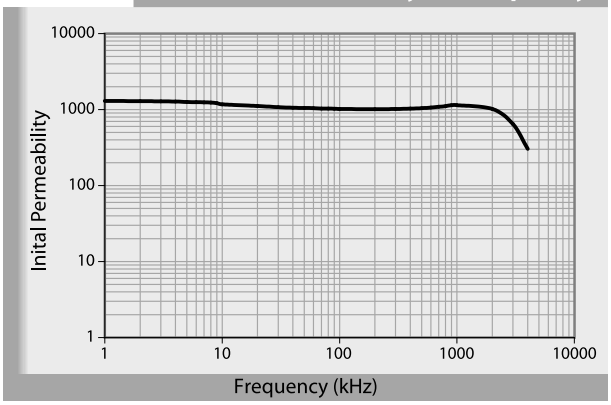
Winding Method : Ø0.3~2μEW~10 Ts for Permeability, RLF, Q
Ø0.3~2μEW~5 Ts for Impedance

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

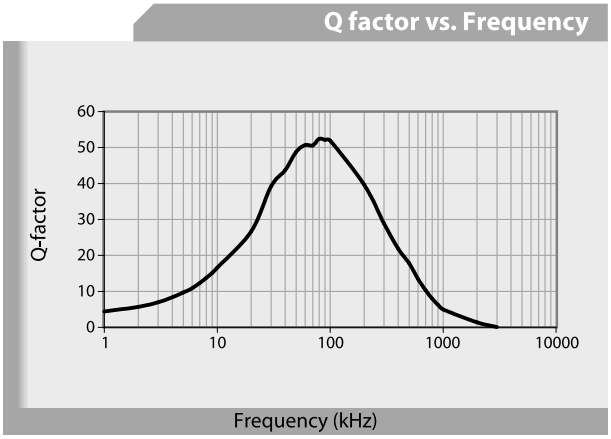
Initial Permeability vs.Temperature



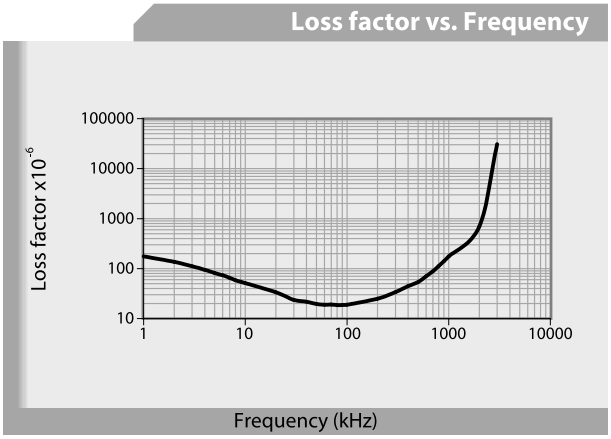
Initial Permeability vs. Frequency



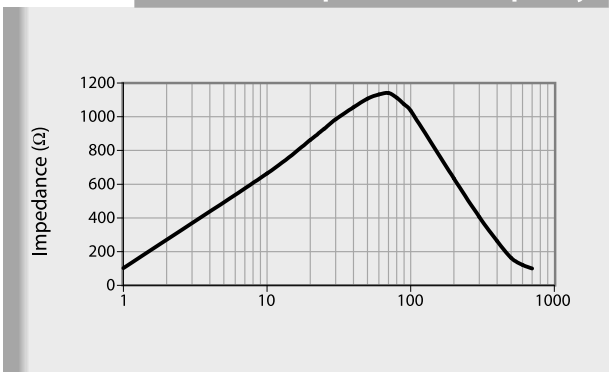
Q factor vs. Frequency



Loss factor vs. Frequency



Impedance vs. Frequency



B-H Curve