

MATERIAL CHARACTERISTICS

H5R



TERM	SYMBOL	CONDITIONS	VALUE	UNIT
Initial Permeability	μ_i	10kHz 25 °C	210 ± 25%	
Maximum Magnetic Flux Density	Bm	10 Oe 25 °C	3500	Gauss
Residual Magnetic Flux Density	Br	25 °C	2800	Gauss
Coercive Force	Hc		0.4	Oe
Relative Loss Factor	$\tan \delta / \mu_i$	25 °C 1 MHz	30	10^{-6}
Electrical Resistivity	ρ	DC 25 °C	$>10^8$	Ωcm
Temperature Coefficient	$\alpha_{\mu r}$	20 °C - 80 °C	≤ 50	10^{-6}K^{-1}
Curie Temperature	Tc		250	°C
Density	ρ		4900	kg/m^3

CHARACTERISTICS :

- High resistivity material
- High Q material

APPLICATIONS :

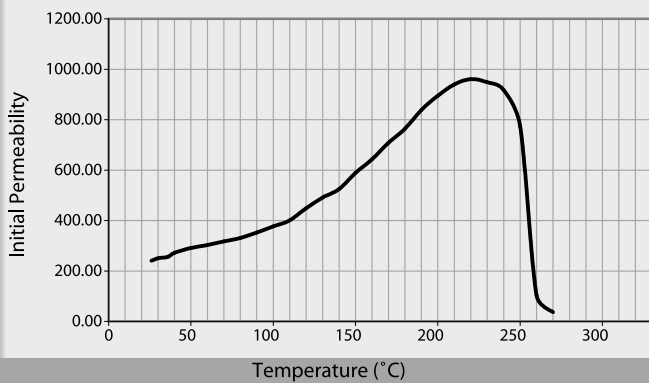
- EMI Suppression

Test Core Size : T 20 x 12 x 10

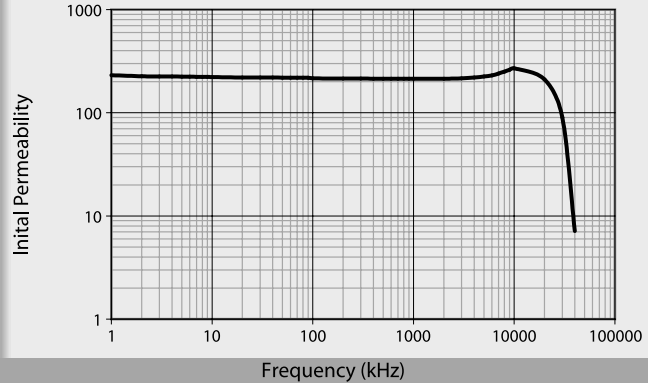
Winding Method : $\varnothing 0.3 \sim 2\mu\text{EW} \sim 10$ Ts for Permeability, RLF, Q
 $\varnothing 0.3 \sim 2\mu\text{EW} \sim 5$ Ts for Impedance

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

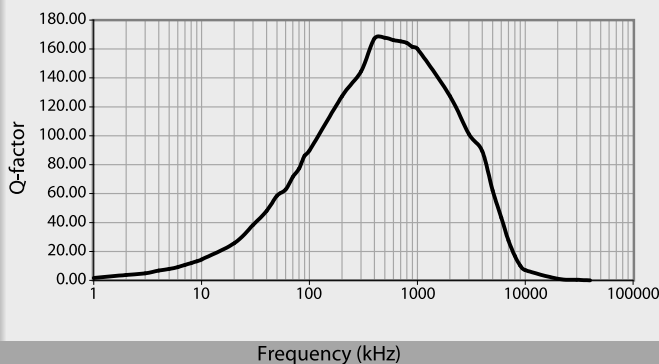
Initial Permeability vs. Temperature



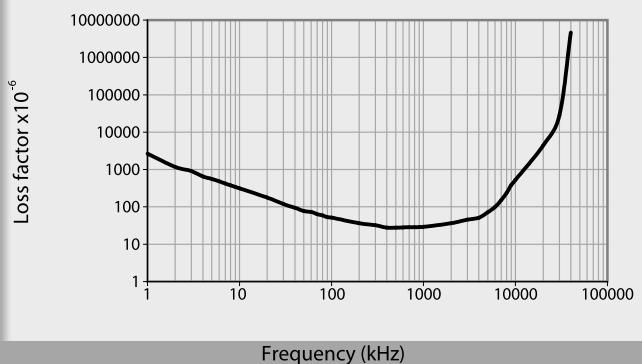
Initial Permeability vs. Frequency



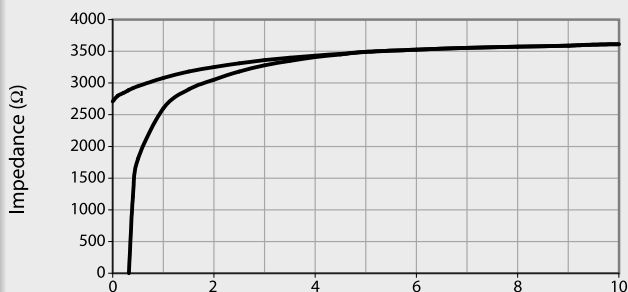
Q factor vs. Frequency



Loss factor vs. Frequency



Impedance vs. Frequency



B-H Curve

