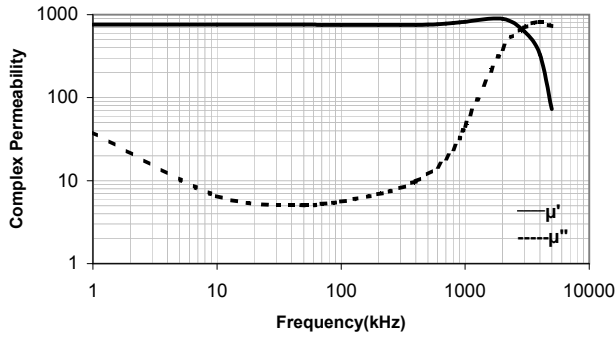


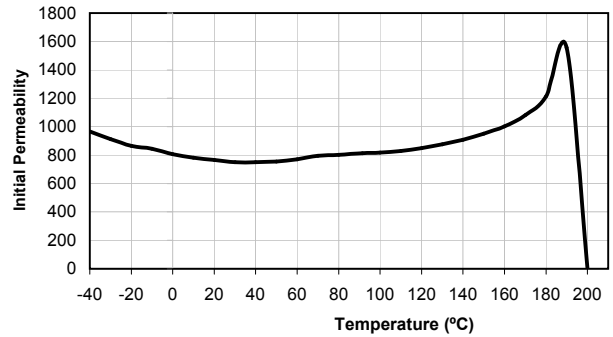
# HT-008 : RFID antenna grade

Properties	Symbol	Unit	Test condition	Values
Initial permeability ( $\pm 25\%$ )	$\mu_i$		0.1mT, 25°C	800
Flux density (min)	Bs	mT	1200A/m, 25°C	430
			1200A/m, 100°C	320
Relative loss factor $\tan\delta/\mu_i$ (max)	$\tan\delta/\mu_i$	$10^{-6}$	0.25mT, 10kHz & 25°C	10
			0.25mT, 100kHz & 25°C	10
Coercive Field (max)	Hc	A/m	10kHz, 25°C	20
Curie Temperature (min)	Tc	°C		190
Density (min)	d	kg/m <sup>3</sup>	25°C	4850
Temperature Coeff. of permeability (max)	$\alpha_f$	$10^{-6}/K$	-40 to 80°C	$\pm 3$
Resisitivity (min)	$\rho$	$\Omega m$	25°C	10

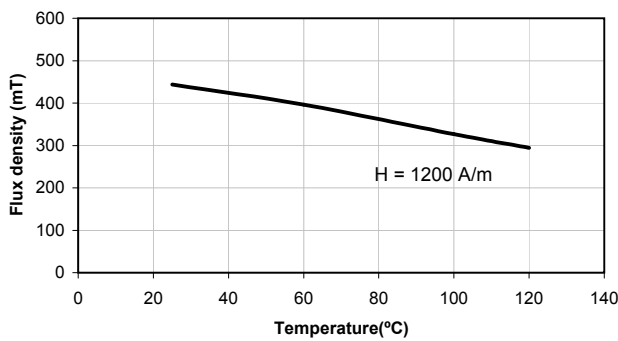
Complex permeability vs frequency



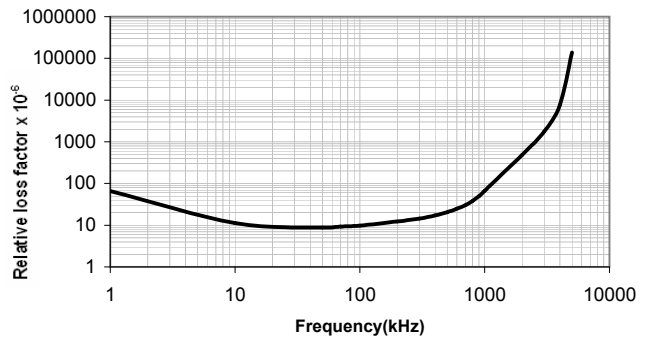
Initial permeability vs temperature



Flux density vs temperature



Relative loss factor vs frequency



All measurements made on Toroid OD= 30mm, ID=20mm Ht=10mm.