DATA SHEET

NF120

Materials specification

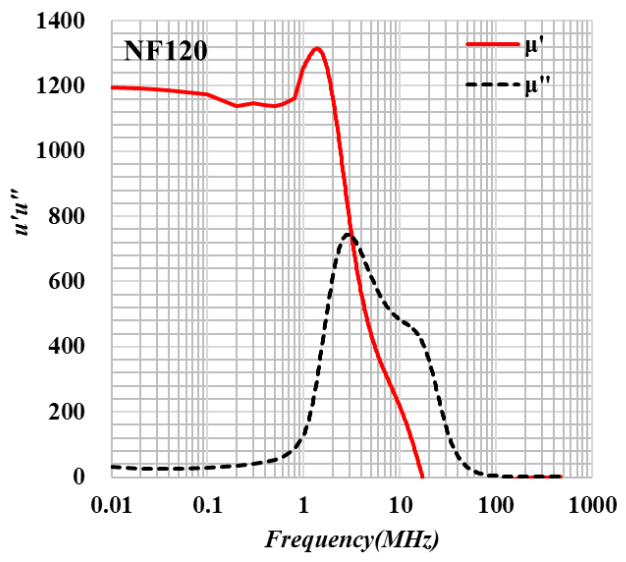
2024/09/01

高科磁技股份有限公司
中鋼集團

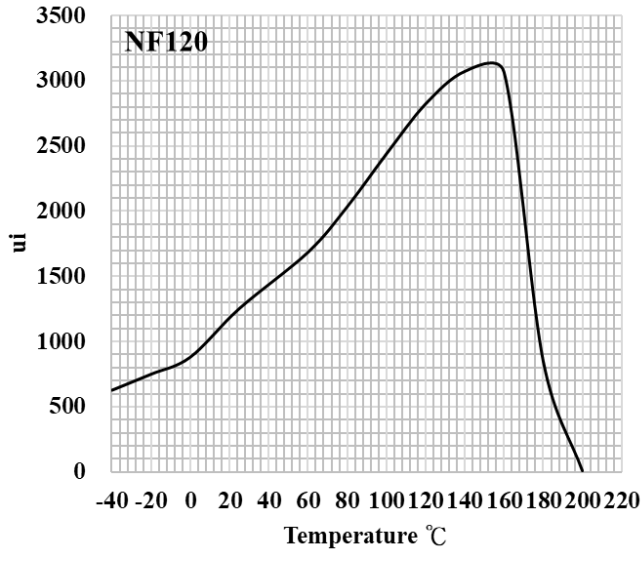
Materials specification NF120

NF120 SPECIFICATIONS

Initial permeability	μi	-	f=10kHz	0.25mT	25℃	1200±25%
Remanent flux density	Br	mT		4000A/m	25℃	140
Coercive Force	Hc	A/m				10
Saturation magnetic flux density	Bs	mT				360
Temperature factor of initial permeability		$x10^{-6}$/℃	f=10kHz	0.25mT	25 to 60℃	0 to 30
Relative loss foctor	tanδ/μi	$x10^{-6}$	f=0.01KHz f=0.5KHz	0.25mT	25℃	<30 <50
Power loss density	PLD	kW/m3	f=100KHz f=500KHz f=1MHz f=3MHz f=5MHz	100mT 50mT 30mT 10mT 5mT	25℃	400 1000 400 640 360
Curie temperature	Tc	℃	f=10kHz	0.25mT		>160
Resistivity	ρ	Ωm			25℃	$>10^5$
Density	kg/m3					$>5.1x10^3$



Complex permeability as a function of frequency.



Initial permeability as a function of temperature.