

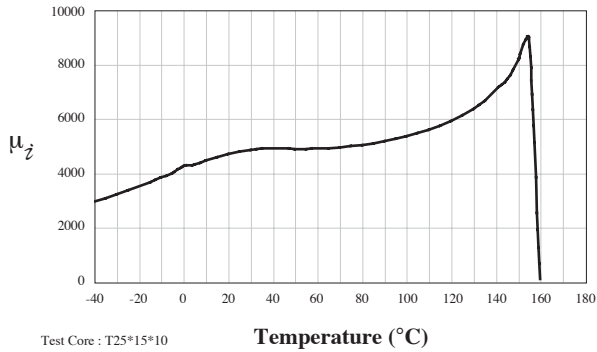
Material Characteristics (3)

	Symbol	Unit	Measuring Conditions			Telecom Materials		
			Freq.	Flux den.	Temp.	N2	N4	N42
Initial Permeability	μ_z				25°C	4000 ± 25%	2500 ± 25%	3800 ± 25%
Relative Loss Factor	$\tan \delta / \mu_z$	10 ⁻⁶	10kHz	< 0.25mT	25°C	< 5	< 7	< 1.5
			100kHz		25°C	< 4	< 3	< 2.5
Saturation Flux Density	B _{ms}	mT	10kHz	H=1200A/m	25°C	420	450	530
					100°C	260	320	425
Remanence	B _{rms}	mT	10kHz	H=1200A/m	25°C	65	90	75
					100°C	70	100	250
Coercivity	H _c	A/m	10kHz	H=1200A/m	25°C	8	13	7
					100°C	2	11	12
Temperature Factor of Permeability	F	10 ⁻⁶ /°C	10kHz	< 0.25mT	5 - 25°C	1.8 ~ 2	< 1.3	7 ~ 9
					25 - 55°C	0.3 ~ 0.5	< 1.3	< -4 ~ -2
Hysteresis Material Constant	B	10 ⁻⁶ /mT	10kHz	1.5-3.0mT	25°C	< 1	< 0.6	< 0.3
Curie Temperature	T _c	°C	10kHz	< 0.25mT		> 150	> 170	> 250
Resistivity		Ωm				1.80	7.50	5.00
Density	d	g/cm ³				4.85	4.70	4.90

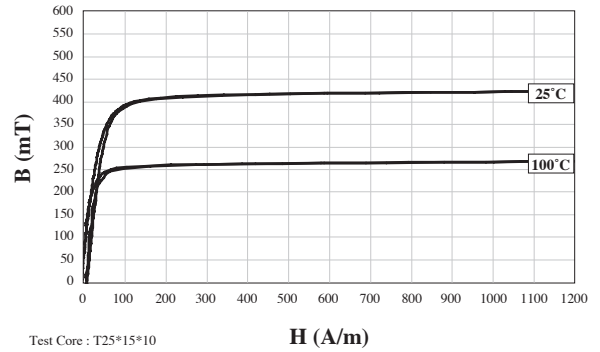
Material Characteristics (4)

	Symbol	Unit	Measuring Conditions			EMI Materials	
			Freq.	Flux den.	Temp.	N43	N5 NEW
Initial Permeability	μ_z				25°C	750 ± 25%	2000 ± 25%
Relative Loss Factor	$\tan \delta / \mu_z$	10 ⁻⁶	10kHz	< 0.25mT	25°C	< 60	< 1.24
			100kHz		25°C	< 15	< 23
Saturation Flux Density	B _{ms}	mT	10kHz	H=1200A/m	25°C	490	370
					100°C	400	285
Remanence	B _{rms}	mT	10kHz	H=1200A/m	25°C	240	240
					100°C	190	140
Coercivity	H _c	A/m	10kHz	H=1200A/m	25°C	23	
					100°C	18	
Temperature Factor of Permeability	F	10 ⁻⁶ /°C	10kHz	< 0.25mT	5 - 25°C	< 2.2	< 1.1
					25 - 55°C	< 1.8	< 5.8
Hysteresis Material Constant	B	10 ⁻⁶ /mT	10kHz	1.5-3.0mT	25°C	< 2.5 ^(100kHz)	< 0.36
Curie Temperature	T _c	°C	10kHz	< 0.25mT		> 250	> 130
Resistivity		Ωm				2.00	140
Density	d	g/cm ³				4.70	5.09

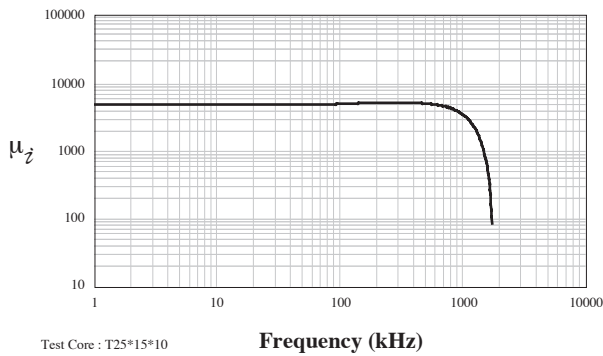
Initial Permeability V.S. Temperature



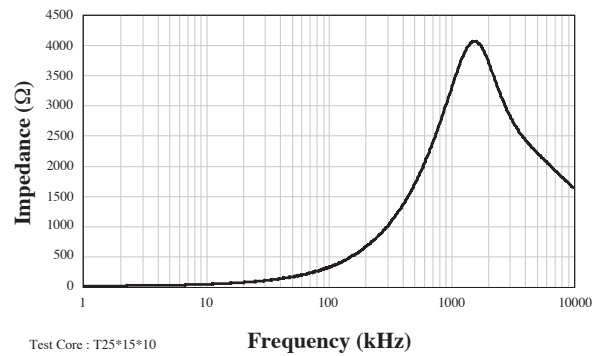
Saturation Flux Density V.S. Magnetic Field



Initial Permeability V.S. Frequency



Impedance V.S. Frequency



Loss Factor V.S. Frequency

