

Material Characteristics



Stress Resistance	Symbol	Unit	Measurtionsing Conditions		Material
			settings	Temp.	TS40
Initial permeability	μ_i		1MHz;150mV	25°C	400±25%
Saturation flux density	B_s	mT	f = 50Hz H = 16kA/m	25°C	425
				100°C	350
Remanent flux density	B_r	mT	f = 50Hz H = 16kA/m	25°C	200
				100°C	75
Coercive force	H_c	A/m	f = 50Hz H = 16kA/m	25°C	60
				100°C	50
Relative temp factor	α_{μ}	$\times 10^{-5}$	-20°C → 20°C	100kHz 1V	-
			60°C → 20°C		2 ~ 8
Relative loss factor	$\tan\delta/\mu_i$	$\times 10^{-5}$	1MHz;150mV	25°C	<70
Curie temperature	T_c	°C	1MHz;150mV		>180
Electrical resistivity	ρ	$\Omega\cdot m$	1000V	25°C	>10 ⁶
Density	d_s	g/cm ³		25°C	5.20

