

Material Characteristic

Item	Symbol	Unit	Measure condition	℃	GL20	GL25	GL26	GL30
Initial Permeability	μ_i		10KHz 0.5mA	25				
			100KHz 0.5mA					
Core Loss	P _v (Maximum)	mW/ c.c.	25KHz 100mT	25				
				60				
			100KHz 100mT	25	250			
				60				
			25KHz 200mT	25	200	150		
				60				
			100KHz 200mT	25	135	65		
				60				
100KHz 200mT	25	850	720	600				
	60							
100KHz 200mT	25	750	450					
	60			760				
Relative Loss Factor (Maximum)	Tan δ / μ_i $\times 10^{-6}$		10KHz 0.5mA	25				
			100KHz 0.5mA					
Saturation Flux Density	B _{ms}	mT	H=796A/m =10 Oe	25	500	460	400	450
				100			290	
Remanence	Br _{ms}	mT	10KHz	25	220	150	70	150
Coercivity	H _c	A/m		25	26	13	14	12.5
Hysteresis Material constant	η_B	$10^{-6}/mT$	10KHz 1.5~3mT	25			≤0.6	
Curie Temperature	T _c	℃			>210	>210	>170	>190
Relative Temperature Coefficient	α_F	$10^{-6}/K$		25 ~ 80			<1.2	
Specific Gravity	d	g/c.c.			4.8	4.8	4.65	4.8

Material Characteristic

Item	Symbol	Unit	Measure condition	℃	GL50	GL70	GL100	GL101-B
Initial Permeability	μ_i		10KHz 0.5mA	25				
			100KHz 0.5mA					
Core Loss	P _v (Maximum)	mW/ c.c.	25KHz 100mT	25				
				60				
			100KHz 100mT	25				
				60				
			25KHz 200mT	25				
				60				
			100KHz 200mT	25				
				60				
100KHz 200mT	25							
	60							
Relative Loss Factor (Maximum)	Tan δ / μ_i $\times 10^{-6}$		10KHz 0.5mA	25	<4	<6	<10	<4
			100KHz 0.5mA		<25	<30		
Saturation Flux Density	B _{ms}	mT	H=769A/m =10 Oe	25	440	410	370	390
				100				
Remanence	Br _{ms}	mT	10KHz	25	130	130		
Coercivity	H _c	A/m		25	9.5	8	3.5	4.5
Hysteresis Material constant	η_B	$10^{-6}/mT$	10KHz 1.5~3mT	25				
Curie Temperature	T _c	℃			>130	>120	>120	>120
Relative Temperature Coefficient	α_F	$10^{-6}/K$		25 ~ 80				
Specific Gravity	d	g/c.c.			4.9	4.9	4.9	4.9