Technical Data Sheet RoHS Compliant Product

SFA05 Characteristics, MnZn

Material Characteristics:

Material Properties	Symbol	Unit	Measuring Conditions			SFA05
			Freq.	Flux den.	Temp.	
Initial Permeability	μi	-	≤10kHz	0.25mT	25°C	5000±25%
Power Loss	Pv	kW/m^3	25kHz	200mT	25 °C	-
					100°C	-
			100kHz	200mT	25 °C	-
					100°C	-
			300kHz	100mT	25 °C	-
					100°C	-
			500kHz	50mT	25 °C	-
					100°C	-
Saturation Flux Density	Bms	mT	10KHz	H=1200A/m	25°C	440
					100°C	300
Remanence	Brms	mT	10KHz	H=1200A/m	25°C	80
					100°C	90
Coercivity	Hc	A/m	10kHz	H=1200A/m	25°C	-
					100°C	-
Relative Loss Factor	tanδ /μi	10^{-6}	10KHz	<0.25mT	25°C	<4
			100kHz		25°C	<15
Hysteresis Material Constant	ηB	10^{-6}/mT	10KHz	1.5-3.0mT	25°C	<0.8
Disaccommodation Factor	D_F	10^{-6}	10KHz	< 0.25mT	25°C	<3
Curie Temperature	Tc	°C	-	-	-	≥140
Resistivity	ρ	Ωm	-	-	-	0.2
Density	d	g/cm^3	-	-	-	4.85

Note: Material characteristics are typical for a toroid core.
Product specification will differ from these data due to the influence of geometry and size.