Speedofer

Technical Data Sheet RoHS Compliant Product

SFP48 Characteristics, MnZn

Material Characteristics:

Material Properties	Symbol	Unit	Measuring Conditions			SFP48
			Freq.	Flux den.	Temp.	
Initial Permeability	μi		≤10kHz	0.25mT	25°C	2500±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	450
					100°C	320
Remanence	Brms	mT	10KHz	H=1200A/m	25°C	180
					100°C	150
Coecivity	Hc	A/m	10kHz	H=1200A/m	25°C	18
					100°C	12
Relative Loss Factor	tanδ /μi	10^{-6}	10KHz	<0.25mT	25°C	<7
			100kHz		25°C	<3
Hysteresis Material Constant	ηB	10^{-6}/mT	10KHz	1.5-3.0mT	25°C	<.6
Disaccommodation Factor	D_F	10^{-6}	10KHz	< 0.25mT	25°C	-
Curie Temperature	Tc	°C				≥170
Resistivity	ρ	Ωm				7.5
Density	d	g/cm^3				4.7

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