

Technical Data Sheet RoHS Compliant Product SFP49 Characteristics, MnZn

Material Characteristics:

Material Properties	Symbol	Unit	Measuring Conditions			SFP49			
			Freq.	Flux den.	Temp.				
Initial Permeability	μ_i		$\leq 10\text{kHz}$	0.25mT	25°C	1500 \pm 25%			
Power Loss	Pv	kW/m ³	25kHz	200mT	25 °C	-			
					100°C	-			
			100kHz	200mT	25 °C	-			
					100°C	-			
			300kHz	100mT	25 °C	410			
					100°C	370			
			500kHz	50mT	25 °C	200			
					100°C	100			
			1000kHz	50mT	25 °C	-			
					100°C	550			
			Saturation Flux Density	Bms	mT	10KHz	H=1200A/m	25°C	490
								100°C	400
Remanence	Brms	mT	10KHz	H=1200A/m	25°C	215			
					100°C	125			
Coercivity	Hc	A/m	10kHz	H=1200A/m	25°C	35			
					100°C	30			
Hysteresis Material Constant	η_B	10 ⁻⁶ /mT	10KHz	1.5-3.0mT	25°C	<1.0			
Disaccommodation Factor	D _F	10 ⁻⁶	10KHz	< 0.25mT	25°C	<2.0			
Curie Temperature	T _c	°C				≥ 250			
Resistivity	ρ	Ωm				12			
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.

