

Technical Data Sheet RoHS Compliant Product
SFA12 Characteristics, MnZn

Material Characteristics:

Material Properties	Symbol	Unit	Measuring Conditions			SFA12
			Freq.	Flux den.	Temp.	
Initial Permeability	μ_i	-	$\leq 10\text{kHz}$	0.25mT	25°C	12000 \pm 30%
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	380
					100°C	180
Remanence	B _{rs}	mT	10KHz	H=1200A/m	25°C	130
					100°C	110
Coercivity	H _c	A/m	10kHz	H=1200A/m	25°C	-
					100°C	-
Relative Loss Factor	tan δ / μ_i	10 ⁻⁶	10KHz	<0.25mT	25°C	<10
			100kHz		25°C	<60
Hysteresis Material Constant	η_B	10 ⁻⁶ /mT	10KHz	1.5-3.0mT	25°C	<0.5
Disaccommodation Factor	D _F	10 ⁻⁶	10KHz	< 0.25mT	25°C	<2
Curie Temperature	T _c	°C	-	-	-	≥ 110
Resistivity	ρ	Ωm	-	-	-	0.12
Density	d	g/cm ³	-	-	-	4.9

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

