ACME Electronics Corporation

Material Characteristics	P453	REV:02

A Wide Temperature and Low Loss Power Material

	Symbol	Unit	Measuring Conditions			Wide Temperature Low Loss Material
			Freq.	Flux den.	Temp.	P453
Initial Permeability	μi		≤ 10KHz	0.25mT	25°C	3500 ± 25%
Amplitude Permeability	μa		25KHz	200mT	25°C	>5000
					100°C	>5000
Power Loss	Pv	KW/m^3	100KHz	200mT	25°C	230
					100°C	260
			300KHz	100mT	25°C	240
					100°C	300
			500KHz	50mT	25°C	145
					100°C	180
Saturation Flux Density	Bms	mT	10KHz	H=1200A/m	25°C	535
					100°C	425
Remanence	Brms	mT	10KHz	H=1200A/m	25°C	67
					100°C	60
Coercivity	Hc	A/m	10KHz	H=1200A/m	25°C	8
					100°C	7
Hysteresis Material Constant	ηB	10^{-6}/mT	10KHz	1.5-3.0mT	25°C	<0.6
Disaccommodation Factor	D_F	10^{-6}	10KHz	< 0.25mT	25°C	<1
Curie Temperature	Tc	°C				≧215
Resistivity	ρ	Ωm				5.00
Density	d	g/cm^3				4.90

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