

Product specification

Product name	Samarium Cobalt Dia6mmX3mm				
Item	Name	Symbol	SI	CGS	
Shape	Diameter	D	6 mm	0.6 cm	
	Height	H	3 mm	0.3 cm	
	Dimensional tolerance +/-	D H	0.1 mm	0.01 cm	
	Direction of magnetization	M	Assiale		
	Surface treatment	-	- μ m		
Measuring point	Surface flux density	B	319.6 mT	3196 G	
	Attractive force	F	0.605 kgf	605 gf	
	Magnetic flux density on load point	Bd	605.5 mT	6055 G	
	Total flux	Dia o	0.0000171 ₂ Wb	1712 Mx	
	Permeance coefficient	Pc	1.41 Pc	-	
	Operationg temperature range	Tw	330 deg C	626 deg F	
	Operationg temperature range	Tw	- deg C	- deg F	
	Material grade	Samarium Cobalt	YXG28		
Material characteristics	Remanence	Br	1030-1080 mT	10.3-10.8 kG	
	Coericeive forces	Hcb	756-796 kA/m	9.5-10.0 kOe	
	Intrinsic coercivity	Hcj	>1433 kA/m	>18 kOe	
	Maximum energy product	BH	207-220 kJ/m3	26-28 MGOe	
	Temperature coefficient	Br	-0.035 %/deg C	31.94 %/deg F	
		Hcj	-0.2 %/deg C	31.64 %/deg F	
	Max. operating temperature	Tw	300 deg C	572 deg F	
	Curie temperature	Tc	800 deg C	1472 deg F	
	Density	P	8.5 kg/m3	-	
	Weight	Net	0.000721 kg	0.721 g	
Remark	REACH RoHS Directive				

Information on these magnetic characteristics are approximate and reference values. When using the calculated values for actual magnetic application products and research and development of the application of magnetic products, use these values as reference values. We are not responsible for the results from the reference values. The details can be found by referring to the product specifications. All specifications are subject to change without notice.