

Product specification

Product name	Samarium Cobalt 30mmX10mmX3mm					
Item	Name	Symbol	SI		CGS	
Shape	Length	L	30	mm	3 cm	
	Width	W	10	mm	1 cm	
	Height	H	3	mm	0.3 cm	
	Dimensional tolerance +/-	L	0.1	mm	0.01	cm
		W	0.1	mm	0.01	cm
		H	0.1	mm	0.01	cm
	Direction of magnetization	M	Assiale			
Surface treatment	-	-	μ m			
Measuring point	Surface flux density	B	190.1	mT	1901 G	
	Attractive force	F	3.83	kgf	3833 gf	
	Magnetic flux density on load point	Bd	264.3	mT	2643 G	
	Total flux	Dia o	0.0000793	Wb	7930 Mx	
	Permeance coefficient	Pc	0.35	Pc	-	
	Operating temperature range	Tw	270	deg C	518 deg F	
	Operating temperature range	Tw	-	deg C	- deg F	
Material characteristics	Material grade	Samarium Cobalt	YXG28H			
	Remanence	Br	1030-1080	mT	10.3-10.8 kG	
	Coercive forces	Hcb	756-796	kA/m	9.5-10.0 kOe	
	Intrinsic coercivity	Hcj	>1990	kA/m	>25 kOe	
	Maximum energy product	BH	207-220	kJ/m ³	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	350	deg C	662 deg F	
	Curie temperature	Tc	800	deg C	1472 deg F	
	Density	P	8.5	kg/m ³	-	
Weight	Net	0.00765	kg	7.65 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.