

# Product specification

Product name	Neodymium 50mmX10mmX3mm/M3 S-pole						
Item	Name	Symbol	SI		CGS		
Shape	Diameter	D	40	mm	4	cm	
	Internal diameter	ID	3.2	mm	0.32	cm	
	Subtitle	S	6.7	mm	0.67	cm	
	Length	L	50	mm	5	cm	
	Width	W	10	mm	1	cm	
	Height	H	3	mm	0.3	cm	
	Screw	M	3	mm	0.3	cm	
	Dimensional tolerance +/-	ID		0.1	mm	0.01	cm
		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	Ni	12	$\mu$ m				
Measuring point	Surface flux density	B	210	mT	2100	G	
	Attractive force	F	9.1	kgf	9102	gf	
	Magnetic flux density on load point	Bd	240.5	mT	2405	G	
	Total flux	Dia o	0.00012027	Wb	12027	Mx	
	Permeance coefficient	Pc	0.26	Pc	-		
	Operating temperature range	Tw	60	deg C	140	deg F	
	Operating temperature range	Tw	-	deg C	-	deg F	
Material characteristics	Material grade	Neodymium	35				
	Remanence	Br	1170-1220	mT	11.7-12.2	kG	
	Coercive forces	Hcb	>868	kA/m	>10.9	kOe	
	Intrinsic coercivity	Hcj	>955	kA/m	>12	kOe	
	Maximum energy product	BH	263-287	kJ/m <sup>3</sup>	33-36	MGOe	
	Temperature coefficient	Br	-0.12	%/deg C	31.78	%/deg F	
		Hcj	-0.55	%/deg C	31.01	%/deg F	
	Max. operating temperature	Tw	<80	deg C	<176	deg F	
	Curie temperature	Tc	310	deg C	590	deg F	
	Density	P	7.5	kg/m <sup>3</sup>	-		
Weight	Net	0.0112	kg	11.2	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.