

# Product specification

Product name	Neodymium 50.8mmX50.8mmX12.7mm					
Item	Name	Symbol	SI		CGS	
Shape	Length	L	50.8	mm	5.08	cm
	Width	W	50.8	mm	5.08	cm
	Height	H	12.7	mm	1.27	cm
	Dimensional tolerance +/-	L	0.15	mm	0.015	cm
		W	0.15	mm	0.015	cm
		H	0.15	mm	0.015	cm
Direction of magnetization	M	Assiale				
Surface treatment	Ni	12	$\mu$ m			
Measuring point	Surface flux density	B	244.7	mT	2447	G
	Attractive force	F	42.3	kgf	42326	gf
	Magnetic flux density on load point	Bd	402	mT	4020	G
	Total flux	Dia o	0.00103759	Wb	103759	Mx
	Permeance coefficient	Pc	0.53	Pc	-	
	Operating temperature range	Tw	80	deg C	176	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	0.245	kg	245	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.