

# Specifications

Product Name	Neodymium $\Phi 5\text{mm} \times 5.5\text{mm}$				
Product Code	ND0410				
Content	Name	Symbol	SI	CGS	
Shape	Diameter	D	5 mm	0.5 cm	
	Height	H	5.5 mm	0.55 cm	
	Dimensional tolerance +/-	D H	0.1 mm 0.1 mm	0.01 cm 0.01 cm	
	Magnetization direction	M	Axial direction		
	Surface treatment	NiCuNi	12 $\mu\text{m}$	-	
Magnetic Properties	Surface flux density	B	443.3 mT	4433 G	
	Attractive and Adsorptive Force	F	0.894 kgf	894 gf	
	Operating Point Flux Density	Bd	943.3 mT	9433 G	
	Total Flux	$\phi_0$	0.00001852 Wb	1852 Mx	
	Permeance Coefficient	Pc	3.94 Pc	-	
	Operating Temperature Limit	Tw	110 $^{\circ}\text{C}$	230 $^{\circ}\text{F}$	
Material Properties	Material Symbol	Neodymium	35		
	Residual Flux Density	Br	1170-1220 mT	11.7-12.2 kG	
	Coercive Force	Hcb	$\geq 868$ kA/m	$\geq 10.9$ kOe	
	Intrinsic coercive force	Hcj	$\geq 955$ kA/m	$\geq 12$ kOe	
	Maximum energy product	BH	263-287 kJ/m3	33-36 MGOe	
	Temperature coefficient	Br	-0.12 %/ $^{\circ}\text{C}$	31.78 %/ $^{\circ}\text{C}$	
		Hcj	-0.55 %/ $^{\circ}\text{C}$	31.01 %/ $^{\circ}\text{C}$	
	Heat resistance temperature	Tw	$\leq 80$ $^{\circ}\text{C}$	$\leq 176$ $^{\circ}\text{F}$	
	Curie temperature	Tc	310 $^{\circ}\text{C}$	590 $^{\circ}\text{F}$	
	Density	$\rho$	7.5 kg/m3	-	
Remarks	Weight	Net	0.000809 kg	0.809 g	
	REACH RoHS Directive				

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