

Specifications

Product Name	Neodymium Φ 40mmx20mm					
Product Code	ND0186					
Content	Name	Symbol	SI		CGS	
Shape	Diameter	D	40	mm	4 cm	
	Height	H	20	mm	2 cm	
	Dimensional tolerance +/-	D	0.1	mm	0.01	cm
		H	0.1	mm	0.01	cm
	Magnetization direction	M	Axial direction			
Surface treatment	NiCuNi	12	μ m	-		
Magnetic Properties	Surface flux density	B	422.5	mT	4225 G	
	Attractive and Adsorptive Force	F	34.5	kgf	34523 gf	
	Operating Point Flux Density	Bd	685.8	mT	6858 G	
	Total Flux	ϕ o	0.00086189	Wb	86189 Mx	
	Permeance Coefficient	Pc	1.41	Pc	-	
	Operating Temperature Limit	Tw	90	$^{\circ}$ C	194 $^{\circ}$ 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/m ³	33-36 MGOe	
	Temperature coefficient	Br	-0.12	%/ $^{\circ}$ C	31.78 %/ $^{\circ}$ C	
		Hcj	-0.55	%/ $^{\circ}$ C	31.01 %/ $^{\circ}$ C	
	Heat resistance temperature	Tw	\leq 80	$^{\circ}$ C	\leq 176 $^{\circ}$ F	
	Curie temperature	Tc	310	$^{\circ}$ C	590 $^{\circ}$ F	
	Density	ρ	7.5	kg/m ³	-	
Weight	Net	0.188	kg	188 g		
Remarks	REACH RoHS Directive					

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