

Specifications

Product Name	Neodymium Φ 50mmx40mm					
Product Code	ND0949					
Content	Name	Symbol	SI		CGS	
Shape	Diameter	D	50	mm	5	cm
	Height	H	40	mm	4	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	506.7	mT	5067	G
	Attractive and Adsorptive Force	F	77.5	kgf	77581	gf
	Operating Point Flux Density	Bd	849.3	mT	8493	G
	Total Flux	ϕ_o	0.00166775	Wb	166775	Mx
	Permeance Coefficient	Pc	2.58	Pc	-	
	Operating Temperature Limit	Tw	100	$^{\circ}$ C	212	$^{\circ}$ 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	0.589	kg	589	g	
Remarks	REACH RoHS Directive					

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