

Specifications

Product Name	Neodymium Φ 9mmx12.5mm					
Product Code	ND0451					
Content	Name	Symbol	SI		CGS	
Shape	Diameter	D	9	mm	0.9	cm
	Height	H	12.5	mm	1.25	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	509.9	mT	5099	G
	Attractive and Adsorptive Force	F	3.09	kgf	3094	gf
	Operating Point Flux Density	Bd	1000.4	mT	10004	G
	Total Flux	ϕ o	0.00006364	Wb	6364	Mx
	Permeance Coefficient	Pc	5.4	Pc	-	
	Operating Temperature Limit	Tw	130	$^{\circ}$ C	266	$^{\circ}$ 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	0.00596	kg	5.96	g	
Remarks	REACH RoHS Directive					

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