

# Specifications

Product Name	Neodymium $\Phi$ 12mmx4.5mm					
Product Code	ND0485					
Content	Name	Symbol	SI		CGS	
Shape	Diameter	D	12	mm	1.2 cm	
	Height	H	4.5	mm	0.45 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	$\mu$ m	-		
Magnetic Properties	Surface flux density	B	337.7	mT	3377 G	
	Attractive and Adsorptive Force	F	2.23	kgf	2237 gf	
	Operating Point Flux Density	Bd	580.6	mT	5806 G	
	Total Flux	$\phi$ o	0.00006566	Wb	6566 Mx	
	Permeance Coefficient	Pc	0.99	Pc	-	
	Operating Temperature Limit	Tw	85	$^{\circ}$ C	185 $^{\circ}$ 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 <sup>3</sup>	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	$\rho$	7.5	kg/m <sup>3</sup>	-	
Weight	Net	0.00381	kg	3.81 g		
Remarks	REACH RoHS Directive					

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