

# Specifications

Product Name	Neodymium $\Phi$ 12mmx9.5mm					
Product Code	ND0490					
Content	Name	Symbol	SI		CGS	
Shape	Diameter	D	12	mm	1.2	cm
	Height	H	9.5	mm	0.95	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	475.9	mT	4759	G
	Attractive and Adsorptive Force	F	4.44	kgf	4442	gf
	Operating Point Flux Density	Bd	846	mT	8460	G
	Total Flux	$\phi_o$	0.00009568	Wb	9568	Mx
	Permeance Coefficient	Pc	2.55	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 <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	0.00805	kg	8.05	g	
Remarks	REACH RoHS Directive					

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