

# Specifications

Product Name	Neodymium $\Phi$ 20mmx19mm				
Product Code	ND0304				
Content	Name	Symbol	SI		CGS
Shape	Diameter	D	20	mm	2 cm
	Height	H	19	mm	1.9 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	525.6	mT	5256 G
	Attractive and Adsorptive Force	F	13.5	kgf	13517 gf
	Operating Point Flux Density	Bd	902.2	mT	9022 G
	Total Flux	$\phi$ o	0.00028345	Wb	28345 Mx
	Permeance Coefficient	Pc	3.24	Pc	-
	Operating Temperature Limit	Tw	105	$^{\circ}$ C	221 $^{\circ}$ 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	0.0447	kg	44.7 g	
Remarks	REACH RoHS Directive				

All magnetic property values are for reference only. Please use them only as reference values when referring to actual magnetic application products or for research and development. We are not responsible for any liability resulting from the use of reference values. The contents of this document are subject to change without notice due to improvements or other reasons.