

# Specifications

Product Name	Neodymium $\Phi$ 7mmx8.5mm				
Product Code	ND0431				
Content	Name	Symbol	SI		CGS
Shape	Diameter	D	7	mm	0.7 cm
	Height	H	8.5	mm	0.85 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	485.1	mT	4851 G
	Attractive and Adsorptive Force	F	1.8	kgf	1808 gf
	Operating Point Flux Density	Bd	968.8	mT	9688 G
	Total Flux	$\phi$ o	0.00003728	Wb	3728 Mx
	Permeance Coefficient	Pc	4.5	Pc	-
	Operating Temperature Limit	Tw	120	°C	248 °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	%/°C	31.78 %/°C
		Hcj	-0.55	%/°C	31.01 %/°C
	Heat resistance temperature	Tw	$\leq$ 80	°C	$\leq$ 176 °F
	Curie temperature	Tc	310	°C	590 °F
	Density	$\rho$	7.5	kg/m <sup>3</sup>	-
	Weight	Net	0.00245	kg	2.45 g
Remarks	REACH RoHS Directive				

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