

# Specifications

|                     |                                 |           |                 |                   |                 |
|---------------------|---------------------------------|-----------|-----------------|-------------------|-----------------|
| Product Name        | Neodymium $\Phi$ 5mmx15mm       |           |                 |                   |                 |
| Product Code        | ND0868                          |           |                 |                   |                 |
| Content             | Name                            | Symbol    | SI              |                   | CGS             |
| Shape               | Diameter                        | D         | 5               | mm                | 0.5 cm          |
|                     | Height                          | H         | 15              | mm                | 1.5 cm          |
|                     | Dimensional tolerance<br>+/-    | 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         | 480.3           | mT                | 4803 G          |
|                     | Attractive and Adsorptive Force | F         | 1.04            | kgf               | 1049 gf         |
|                     | Operating Point Flux Density    | Bd        | 1120.8          | mT                | 11208 G         |
|                     | Total Flux                      | $\phi$ o  | 0.000022        | Wb                | 2200 Mx         |
|                     | Permeance Coefficient           | Pc        | 15.88           | Pc                | -               |
|                     | Operating Temperature Limit     | Tw        | 150             | °C                | 302 °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       | 0.0022          | kg                | 2.2 g           |
| Remarks             | REACH RoHS Directive            |           |                 |                   |                 |

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