

Specifications

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|---------------------|---------------------------------|-----------|-----------------|---------------------|-------------|---------------------|
| Product Name | Neodymium Φ 18mmx13.5mm | | | | | |
| Product Code | ND0591 | | | | | |
| Content | Name | Symbol | SI | | CGS | |
| Shape | Diameter | D | 18 | mm | 1.8 | cm |
| | Height | H | 13.5 | mm | 1.35 | 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 | μ m | - | | |
| Magnetic Properties | Surface flux density | B | 487.7 | mT | 4877 | G |
| | Attractive and Adsorptive Force | F | 9.67 | kgf | 9679 | gf |
| | Operating Point Flux Density | Bd | 828.3 | mT | 8283 | G |
| | Total Flux | ϕ_o | 0.00021078 | Wb | 21078 | Mx |
| | Permeance Coefficient | Pc | 2.37 | Pc | - | |
| | Operating Temperature Limit | Tw | 95 | $^{\circ}$ C | 203 | $^{\circ}$ 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 ³ | 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 | ρ | 7.5 | kg/m ³ | - | |
| Weight | Net | 0.0257 | kg | 25.7 | g | |
| Remarks | REACH RoHS Directive | | | | | |

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