

Specifications

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|---------------------|---------------------------------|-----------|-----------------|-------------------|--------------------------|
| Product Name | Neodymium Φ 12mmx12.5mm | | | | |
| Product Code | ND0493 | | | | |
| Content | Name | Symbol | SI | | CGS |
| Shape | Diameter | D | 12 | mm | 1.2 cm |
| | Height | H | 12.5 | mm | 1.25 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 | 507.4 | mT | 5074 G |
| | Attractive and Adsorptive Force | F | 5.05 | kgf | 5050 gf |
| | Operating Point Flux Density | Bd | 928.5 | mT | 9285 G |
| | Total Flux | ϕ o | 0.00010501 | Wb | 10501 Mx |
| | Permeance Coefficient | Pc | 3.66 | Pc | - |
| | Operating Temperature Limit | Tw | 110 | $^{\circ}$ C | 230 $^{\circ}$ 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 | 0.0106 | kg | 10.6 g | |
| Remarks | REACH RoHS Directive | | | | |

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