totalElement

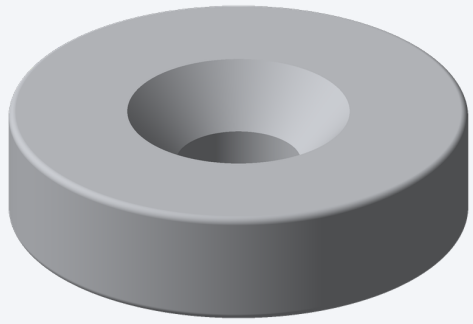
SPECIFICATION SHEET
Part no. DCS12X18N35

# Countersunk Disc Magnet

## 1/2 x 1/8 Inch (12.70 x 3.18 mm)

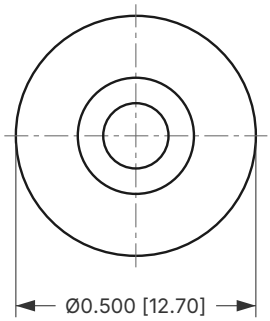
Outer Diameter x Thickness

ISOMETRIC VIEW — Not to scale

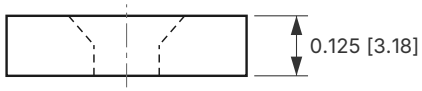


| SPECIFICATIONS | |
|---|---|
| DIAMETER | 0.500 Inch [12.70 mm] |
| THICKNESS | 0.125 Inch [3.18 mm] |
| TOLERANCE | ±0.004 Inch [±0.10 mm] |
| MATERIAL | Sintered Neodymium (NdFeB) |
| GRADE | N35 |
| COATING | Nickel-Copper-Nickel (Ni-Cu-Ni) |
| MAGNETIZATION | Axially, through the thickness |
| COUNTERSINK | Ø0.242 [6.15] × 82° |
| COUNTERSUNK SIDE | One side, north or south |
| THROUGH HOLE | Ø0.136 [3.45] |
| SCREW | #4 flat head |
| PULL FORCE | 4.5 lbs (2 kg) |

DIMENSIONS Inch [mm] · not to scale




TOP VIEW




FRONT VIEW

MAGNETIZATION




NORTH
Countersink on N face

SOUTH
Countersink on S face

Axially magnetized through the 0.125 [3.18] thickness. One side countersunk. Available in north or south; both versions are shown.

GRADE PROPERTIES · N35

| PROPERTY | SI | CGS / IMPERIAL |
|---|---|---|
| Remanence (Br) | 1.17–1.22 T | 11.7–12.2 kG |
| Coercivity (Hcb) | ≥ 859 kA/m | ≥ 10.8 kOe |
| Intrinsic coercivity (Hcj) | ≥ 955 kA/m | ≥ 12 kOe |
| Max. energy product (BH)max | 263–287 kJ/m³ | 33–36 MGOe |
| Max. operating temperature | 80 °C | 176 °F |

Typical values for sintered NdFeB of grade N35 at room temperature, not measured on this part. The highest safe working temperature also depends on the magnet's shape and how it's used.

Handling: neodymium magnets are brittle and can chip, or pinch skin, if they snap together. Keep them away from pacemakers and magnetic media.

VIEW ONLINE

Scan to open this magnet on totalElement.com.

CAD FILES

The technical drawing and 3D model are on the product page.

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