totalElement

SPECIFICATION SHEET
Part no. D116X18N35SH

Cylinder Magnet

1/16 x 1/8 Inch (1.59 x 3.18 mm)

Diameter x Thickness

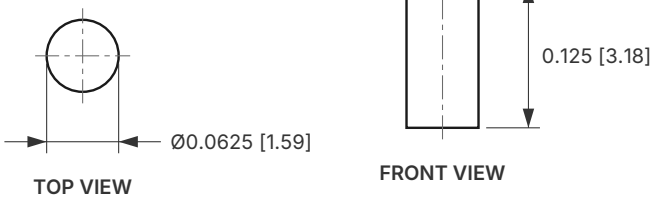
ISOMETRIC VIEW — Not to scale



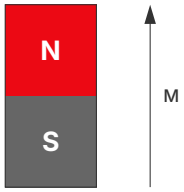
SPECIFICATIONS

DIAMETER	0.0625 Inch [1.59 mm]
THICKNESS	0.125 Inch [3.18 mm]
TOLERANCE	±0.004 Inch [±0.10 mm]
MATERIAL	Sintered Neodymium (NdFeB)
GRADE	N35SH
COATING	Nickel-Copper-Nickel (Ni-Cu-Ni)
MAGNETIZATION	Axially, through the thickness
PULL FORCE	0.1 lbs (0.05 kg)
SURFACE FIELD	5,869 Gauss (587 mT)
WEIGHT (EACH)	0.05 g (0.0017 oz)

DIMENSIONS Inch [mm] · not to scale



MAGNETIZATION



Axially magnetized through the 0.125 [3.18] thickness. Pole faces shown for illustration.

GRADE PROPERTIES · N35SH

PROPERTY	SI	CGS / IMPERIAL
Remanence (Br)	1.17–1.22 T	11.7–12.2 kG
Coercivity (Hcb)	≥ 876 kA/m	≥ 11.0 kOe
Intrinsic coercivity (Hcj)	≥ 1592 kA/m	≥ 20 kOe
Max. energy product (BH)max	263–287 kJ/m³	33–36 MGOe
Max. operating temperature	150 °C	302 °F

Typical values for sintered NdFeB of grade N35SH 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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