totalElement

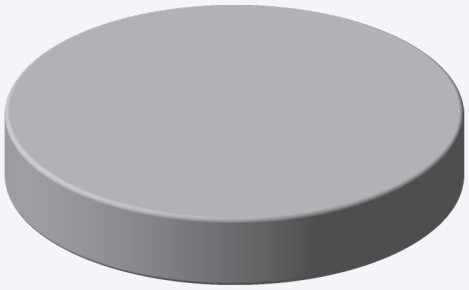
SPECIFICATION SHEET
Part no. D38X116N42SH

Disc Magnet

3/8 x 1/16 Inch (9.53 x 1.59 mm)

Diameter x Thickness

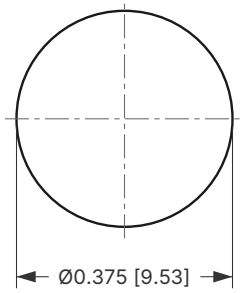
ISOMETRIC VIEW — Not to scale



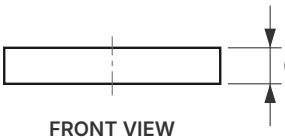
SPECIFICATIONS

DIAMETER	0.375 Inch [9.53 mm]
THICKNESS	0.0625 Inch [1.59 mm]
TOLERANCE	±0.004 Inch [±0.10 mm]
MATERIAL	Sintered Neodymium (NdFeB)
GRADE	N42SH
COATING	Nickel-Copper-Nickel (Ni-Cu-Ni)
MAGNETIZATION	Axially, through the thickness
PULL FORCE	2.1 lbs (0.95 kg)
SURFACE FIELD	2,085 Gauss (208 mT)
WEIGHT (EACH)	0.9 g (0.032 oz)

DIMENSIONS Inch [mm] · not to scale



TOP VIEW



FRONT VIEW

MAGNETIZATION



Axially magnetized through the 0.0625 [1.59] thickness. Pole faces shown for illustration.

GRADE PROPERTIES · N42SH

PROPERTY	SI	CGS / IMPERIAL
Remanence (Br)	1.28–1.33 T	12.8–13.3 kG
Coercivity (Hcb)	≥ 963 kA/m	≥ 12.1 kOe
Intrinsic coercivity (Hcj)	≥ 1592 kA/m	≥ 20 kOe
Max. energy product (BH)max	318–342 kJ/m³	40–43 MGOe
Max. operating temperature	150 °C	302 °F

Typical values for sintered NdFeB of grade N42SH 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.

totalElement
totalElement.com
help@totalelement.com
1 (855) 328-2822