totalElement

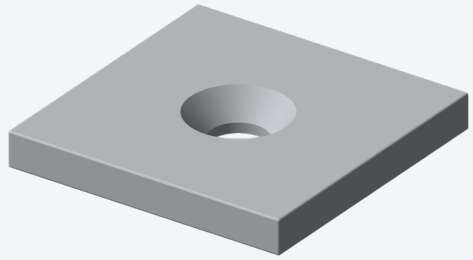
SPECIFICATION SHEET
Part no. BCS1X1X18N52

Countersunk Block Magnet

1 x 1 x 1/8 Inch (25.40 x 25.40 x 3.18 mm)

Width x Length x Thickness

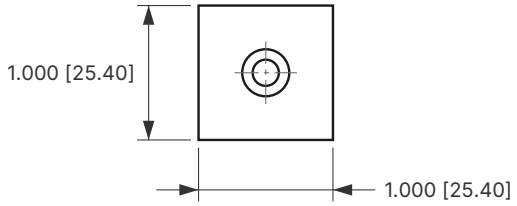
ISOMETRIC VIEW — Not to scale



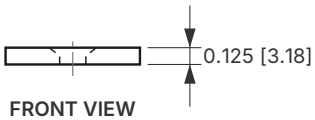
SPECIFICATIONS

WIDTH	1.000 Inch [25.40 mm]
LENGTH	1.000 Inch [25.40 mm]
THICKNESS	0.125 Inch [3.18 mm]
TOLERANCE	±0.004 Inch [±0.10 mm]
MATERIAL	Sintered Neodymium (NdFeB)
GRADE	N52
COATING	Nickel-Copper-Nickel (Ni-Cu-Ni)
MAGNETIZATION	Through the thickness
COUNTERSINK	Ø0.350 [8.89] × 82°
COUNTERSUNK SIDE	One side, north or south
THROUGH HOLE	Ø0.195 [4.95]
SCREW	#8 flat head
PULL FORCE	15.8 lbs (7.2 kg)

DIMENSIONS — Inch [mm] · not to scale



TOP VIEW



FRONT VIEW

MAGNETIZATION



NORTH
Countersink on N face

SOUTH
Countersink on S face

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

GRADE PROPERTIES · N52

PROPERTY	SI	CGS / IMPERIAL
Remanence (Br)	1.43–1.48 T	14.3–14.8 kG
Coercivity (Hcb)	≥ 836 kA/m	≥ 10.5 kOe
Intrinsic coercivity (Hcj)	≥ 876 kA/m	≥ 11 kOe
Max. energy product (BH)max	398–422 kJ/m³	50–53 MGOe
Max. operating temperature	80 °C	176 °F

Typical values for sintered NdFeB of grade N52 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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