totalElement

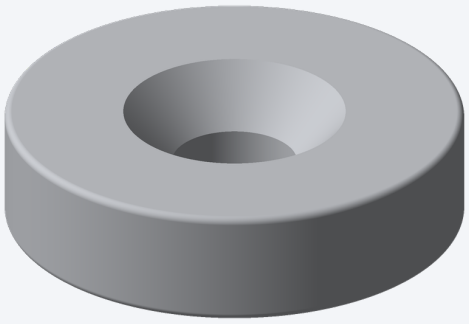
SPECIFICATION SHEET
Part no. DCS12X18N35-BE

Countersunk Disc Magnet

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

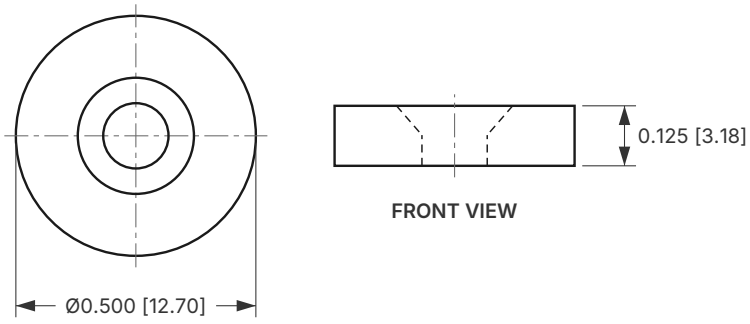
Outer Diameter x Thickness

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	Black Epoxy
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)
WEIGHT (EACH)	2.7 g (0.095 oz)

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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