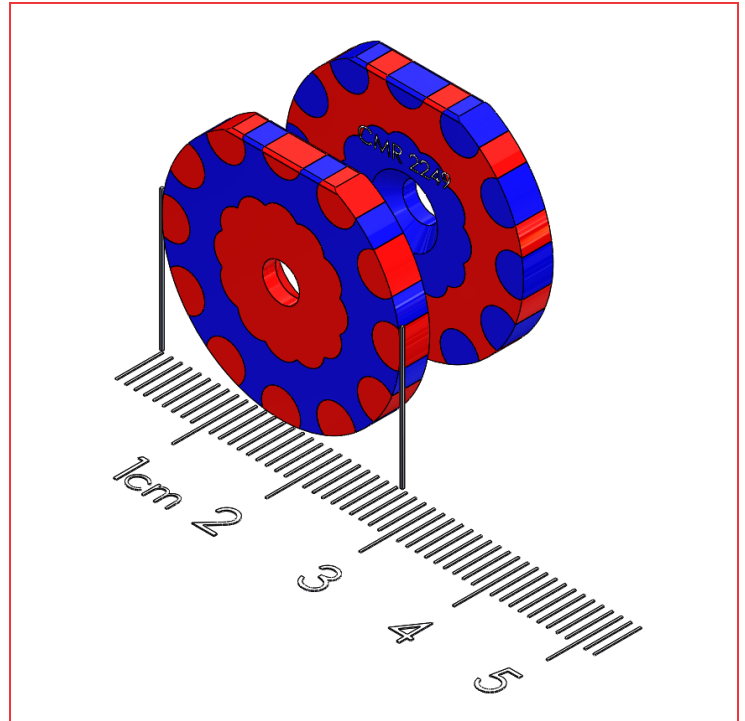


www.polymagnet.com

1002309 Detent Polymagnet Pair – 12 position (30 degrees)

Detent Polymagnets are engineered to possess a certain amount of nodes which provide tactile feedback as the magnets are rotated. These Polymagnets may contain a wide range of detents depending on the magnets surface area.



Features and Benefits

- 12 position clocking/30° increments
- #6 countersink
- 1002270 – 1" OD 0.125" Thick
- 1002271

Technical Specifications:

Dimensions:	1 OD 0.45 CD x 0.125 in
	25.4 OD 11.43 CD x 3.175 mm
Weight:	0.4oz (11.3g)
Material:	NdFeB
Magnet Grade:	N50
Coating:	NI-CU-NI
Temperature Rating:	140° F (60° C)

These Polymagnets provide a strong attract force, when rotationally aligned, and a detent feature as one magnet is rotated about the center while the other magnet is constrained. The attract force decreases as one magnet is rotated out of alignment while the rotational force increases. As the magnet rotates past a null point, in-between detents, the magnet is forced into the next alignment position.

*In the images below the polarity regions are indicated for the marked face of the magnet. North poles are indicated by the red regions, south poles are indicated by the blue regions.

FORCE VS ROTATION AT 1.5MM SEPARATION GAP

