

Specifications

These countersunk ring magnets are 0.750"(19.1mm) diameter x 0.200"(5.1mm) inside diameter x 0.125"(3.2mm) thick. They are magnetized through the thickness. They are composed of grade 40 neodymium iron boron magnetic material and are plated in nickel-copper-nickel for a shiny corrosion resistant finish. Their individual pull force is approximately 5.8 lbs. Maximum working temperature is 176 F (80 C).



Part Number	NSN0589
Imperial Dimensions	0.75 inch outside diameter x 0.2 inch inside diameter x 0.125 inch thick
Metric Dimensions	19.05mm outside diameter x 5.08mm inside diameter x 3.175mm thick
Material	Sintered Neodymium-Iron-Boron (NdFeB)
Shape	Ring
Plating	Ni-Cu-Ni (Nickel)
Magnetization Direction	Thickness
Grade	N40
Pull Force	5.8[2631]
Surface Field	3112
Packaging	Magpak Tube
UPC	897970000891
Magnet Quantity	6
Brand	Magcraft
Maximum Operating Temperature	80 Deg C (176 Deg F)
Maximum Energy Product Bhmax (MGOe (kJ/m3))	38-41 [302-326]
Remanent Flux Density Br (kG (T))	12.5-12.8 [1.25-1.28]
Coercivity HcB (kOe (kA/m))	≥11.3 [≥923]
Intrinsic Coercivity HcJ (kOe (kA/m))	≥12.0 [≥995]
Dimensional Tolerance	+/-0.005"
Density ρ (g/cm3)	≥7.45
Compression Strength (Mpa)	600-1200
Bending Strength (Mpa)	150-380
Vickers Hardness (HV)	460-660
Recoil Permeability (μrec)	1.05
Electrical Resistance (Ω·mm2/m)	1.25-1.55
Curie Temperature Tc (°C)	310
Thermal Expansion Coefficient 100°C // (x10 ⁻⁶ /K)	6
Thermal Expansion Coefficient 100°C ⊥ (x10 ⁻⁶ /K)	-1

