

Product name : 25 x 10 x 5 / F30 - ferrite magnet

PERFORMANCE PARAMETERS

| Length | 25 [mm] +2,5%/-2,5% | |
|---|---------------------|--|
| Width | 10 [mm] +2,5%/-2,5% | |
| Height | 5 [mm] +0,1/-0,1 | |
| Magnetizing direction along dimension | 5 [mm] | |
| Direction of magnetization along the height (the last dimension included that the surface of a magnet perpendicular to its height makes the N-pol- perpendicular to the height refers to the S-pole;. | - | |
| Grade | F30 | |
| Magnet type | Ferrite | |
| Maximal hoisting capacity | 0,62 [kg] | |
| detaching force. With the force acting on the sliding off, the lifting capaci times smaller. The air gap comprised between the metal sheet and a ma the pull force. Maximum working temperature | 5 | |
| For flat magnets and magnets mounted in the open magnetic circuit working temperature may be insignificantly lower. For high magnets and magnets mounted in the closed magnetic circuit working temperature equals max. working temperature for a given material. Curie's temperature is ~ 450°[C]. Temperature coefficient of remanence TK(Br): approx0,19 %/°[C]. Temperature coefficient of coercivity TK(HcJ): approx. 0,40 %/°[C]. | | |
| water-resistant | yes | |
| Ferrite magnets do not require anticorrosive protection. They my be used As ceramic magnets, ferrite magnets are brittle. | d in water. | |
| Weight | 5,63 [g] | |
| All the numbers quoted were obtained as a result of tests with one specific ite and are intended to serve for comparison of practical magnetic properties of shop. | | |

MAGNETIC PROPERTIES OF MATERIAL GRADE F30

| remanence B _r | min. 0,37 [T] | |
|---|-----------------|--|
| coercivity H _c B | min. 175 [kA/m] | |
| coercivity H _c J | min. 180 [kA/m] | |
| energy product (BH) _{max} | min. 26 [kJ/m³] | |
| Magnetic properties of a particular material, together with its shape, volume, max. working temperature and direction of magnetization have influence on practical magnetic properties of a magnet. | | |

As an example, you will find attached a graph of a course of the II quadrant of magnetic hysteresis loop for a material grade F30.

PHYSICAL PROPRIETIES

| density | ~4,5 [g/cm3] |
|-------------|---|
| resistivity | 10 ⁴ - 10 ⁸ [uOhm x cm] |

TECHNICAL DRAWING

