



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Magnet for TMR Angle Sensor Use

The optimal magnet for TMR angle sensors

Magnetic field distributions that reduce angular errors can be made by combining it with our TMR angle sensors due to the adoption of an isotropic bonded NdFeB magnet

Features

- Magnetization to minimize the error of angle
- High robustness against the setting area between magnet and TMR angle sensor
- High reliability

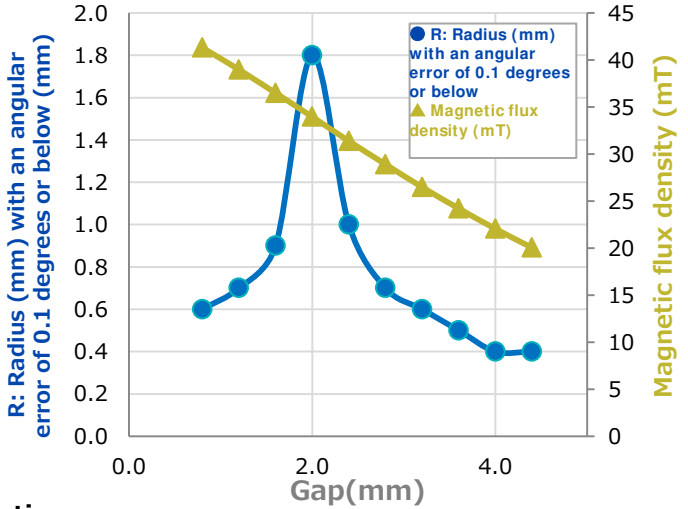
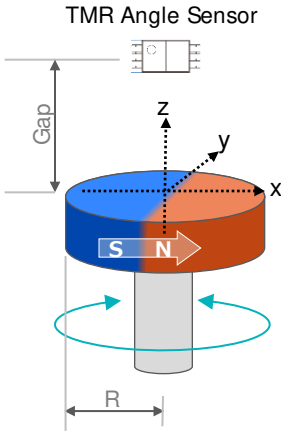
Applications

- For EPS angle sensor
- For control system of wiper motor
- For other automotive angle sensor

Characteristics

- Positional relationship between magnets and sensors
- The distance between magnets and TMR angle sensors, and the relationship between the magnetic flux density and radius that can attain an angular error of 0.1 degrees or below

CM9BI Measured value using a dual-form magnet with a $\Phi 13 \times$ thickness



Magnetic characteristics

		CM9BI	CM6PI
Magnetic powder		Isotropy NdFeB	Isotropy NdFeB
Resin		PA12	PPS
Residual magnetic flux density Br	mT	615	525
Retention force Hcb	kA/m	410	358
Retention force Hcj	kA/m	748	891
Maximum energy product BH max	kJ/m^3	63	47

The CM9BI is recommended for general applications.

The CM6PI is recommended when the ambient temperature is expected to be 150°C or above.