Incremental Encode Output Type

HGP□D Series

SENSORING™

Built-in 2-phase output in a small sized package. Contributes to making the encoder system smaller and to increasing the design flexibility.

MAP type

SOT23 type

RoHS compliant

ALPS M Magnetic Sensor™

Features

- Has a built-in high sensitivity and high precision two phase output
- Small size (1.8V type 2×1×0.55mm).
- Low consumption current (1.8V type total 20μA for two phases).

Applications

- Detection of rotation speed and rotation direction for rotation mechanisms of small motors and actuators, etc., as well as dial input of all kinds of portable devices such as mobile phones and digital cameras.

Typical Specifications

Items	Specifications		
	HGPJDM	HGPHDM	HGPFDT
Operating voltage	Typ. 1.8V (1.6V min. to 3.6V max.)		Typ. 5V (4.5V min. to 5.5V max.)
Sampling period	1.3m sec	320μ sec	35μ sec
Current consumption	20μA Ave. (at VDD= 1.8V)	70μA Ave. (at VDD= 1.8V)	4mA Ave. (at VDD= 5V)
2-phase element interval	Typ. 0.65mm		

Product list

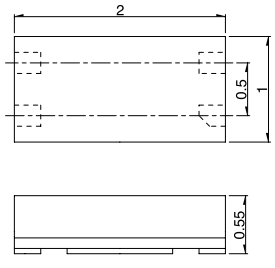
Operating voltage	Package Specifications/Size	Function	Model No.	Operating magnetic field
Typ. 1.8V	MAP type 2×1×0.55mm	2-phase alternating output Sampling period：1.3msec	HGPJDM001A	Hon:+1mT Hoff:-1mT
		2-phase alternating output Sampling period：320μsec	HGPHDM001A	
Typ. 5V	SOT23 type 2.9×2.8×1.1mm	2-phase alternating output Sampling period：35μsec	HGPFDT001A	

Dimensions

Unit:mm

Style

MAP type



SOT23 type