

Bias built-in type angle sensor

KG1402-61

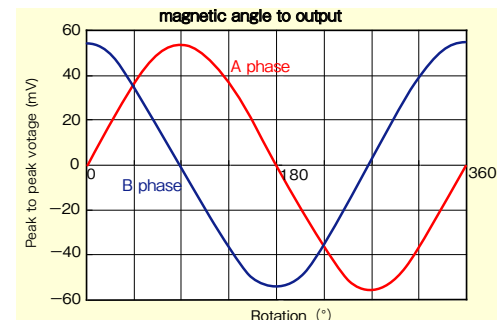
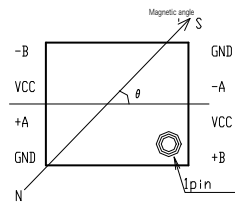
● Features

- Rotation to dipole magnet detect.
- AB phase full bridge.
- High response speed.
- Bias magnet built-in.



● Main use

- encoder
- potentiometer
- coordinates detect



● Absolute maximum rating

Parameter	規格	Unit
Applied voltage	6	VDC
Operating ambient temperature	-30~110	°C
Storage temperature	-40~120	°C
Power dissipation	100	mW

● Electrical properties

Ta=25°C, Vcc=5V

Parameter		Value			Unit
		min	typ	max	
Magnetic field		8	11	14	kA/m
Input resistance*	Vcc-GND間	2.2	2.5	2.8	kΩ
Temp. coefficient of resistance	-	0.30	0.34	0.38	%/°C
Offset voltage	0 kA/m	-10	-	10	mV
Offset drift	0 kA/m	-12	-	12	$\frac{\mu V}{V_{cc}} / ^\circ C$
P to P Output	±11kA/m	95	110	125	mV
Angle error**	±11kA/m	-	-	3	°(deg)
Output voltage	±14kA/m	8.5	10	11.5	$\frac{mV}{kA/m}$
Temp. coefficient of Output voltage	±14kA/m	-0.25	-0.29	-0.33	%/°C

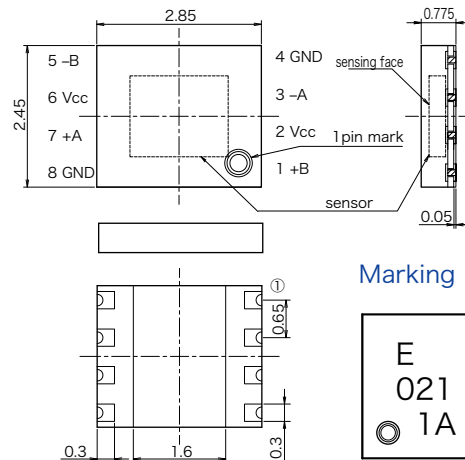
* Vcc pins and GND pins connected.

** |electrical angle - mechanical angle|

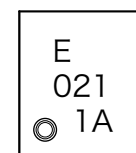
● Packing form

Style	Taping
Net	3000pcs/reel

● Dimension(unit: mm)



Marking



Product No. E021
Lot No.

● Recommended land layout(unit: mm)

