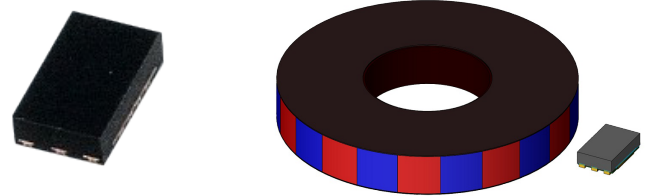


Multipolar magnet detection AMR

KG1223-62

Features

- Micro package in offset sensor placement.
- AB phase full bridge.
- Movement to multipole magnet($\lambda=1$ to 3 mm) detect.
- Harmonics suppressed.
- Excellent GAP and alignment characteristics. (Little waveform fluctuation due to misalignment.)
- High response speed. (DC~500kHz \leq)



Absolute maximum rating

Parameter	Value	Unit
Applied voltage	6	VDC
Operating ambient temperature	-30~110	°C
Storage temperature	-40~120	°C

Electromagnetic properties

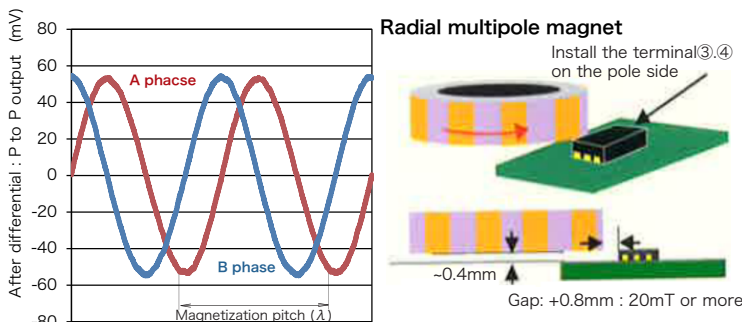
Ta=25°C, Vcc=5V

Parameter	Condition	Value			Unit
		min	typ	max	
Input resistance	Vcc-GND	700	850	1000	Ω
Temperature coefficient of resistance	Operating temperature range	0.2	0.3	0.4	%/°C
Median potential	0 kA/m	2490	2500	2510	mV
Offset voltage	0 kA/m	-10	0	10	mV
P to P output *	16 kA/m	45	55	65	mV
Temp. coefficient of P to P output	Operating temperature range 16 kA/m	-0.2	-0.3	-0.4	%/°C
Temperature coefficient of offset voltage**	Operating temperature range 16 kA/m	-5	0	5	$\frac{\mu V}{V_{cc}}/°C$
		-3.5	0	3.5	mV

* P to P output : Output of top and bottom peak voltage.(Vpp)

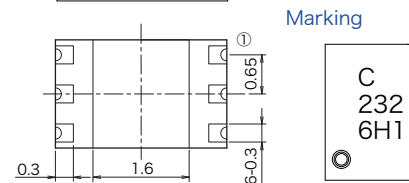
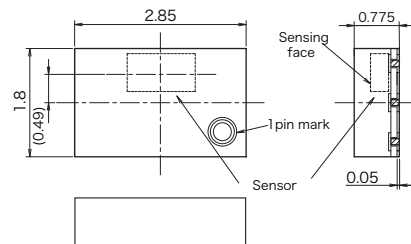
** Temperature coefficient of offset voltage :Average of top and bottom peak voltage.(Vpp/2)

Output waveform example



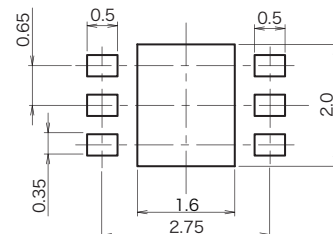
※Detection magnet : $\phi 20$ Radial 32-pole neodymium($\lambda=2$ mm)
Applied voltage : Vcc=5V

Dimension(unit : mm)

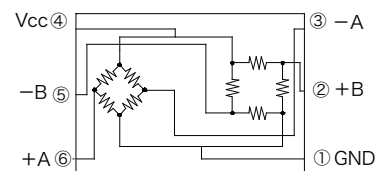


Product No. C232
Lot No.

Recommended land layout(unit: mm)



Equivalent circuit



Packing form

Style	Taping
Net	3000pcs/reel

Notes

- This product is an AMR sensor for detecting magnetic vectors of multipole magnets with a magnetization pitch λ of 1 to 3 mm.
- We recommend using this product for applications where a magnetic field strength of 8 kA / m (10 mT) or more is always applied.
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