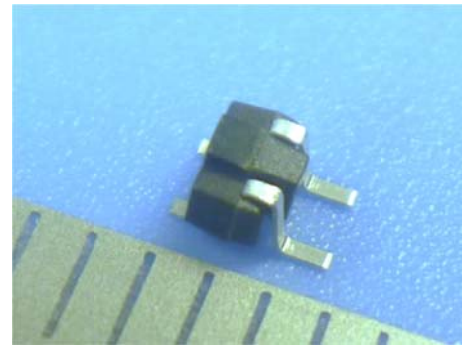


MODEL

NHG529

Vertical sensitive face enables outstanding detection in parallel magnetic-flux to PCB



Features

- Linear output type.
Hall voltage changes linearly according to the magnetic flux density, and the linearity is excellent.
- Operating temperature range is wide, output variation due to temperature change is small.
- Compact size package.
Suitable for compact linear position detectors and current sensors.
- Magnetic sensitive surface is mounted vertically against PCB.
Excellent performance at horizontal flux detection. (* 1)

Applications

- Current Sensor
- Position Sensors, Rotation Sensors
- Non-contacting Magnetic Sensors
- Brushless Motor
- other Magnetic Flux Sensors

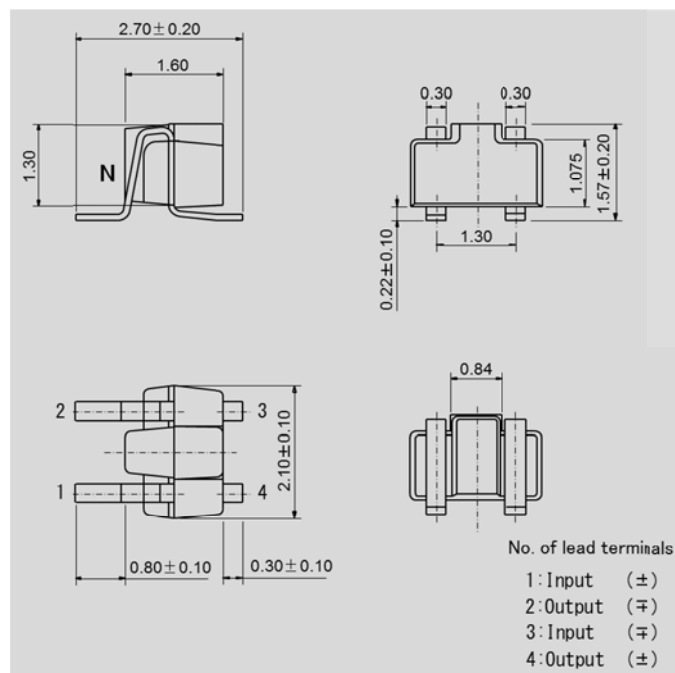
Specifications

◆ Pb-free ◆

Available to supply lead-free products.

◆ Dimensions ◆

(UNIT: mm)



◆ Absolute Maximum Ratings ◆

Item	Symbol	Limit	Unit
Max. Input Current	I _{cm}	10 (at 25°C)	mA
Operating Temp. Range	T _{opr}	-40 ~ 125	°C
Storage Temp. Range	T _{stg}	-55 ~ 150	°C

◆ Electrical Characteristics (T=25°C) ◆

Item	Symbol	Conditions	Min.	Max.	Unit
Output Voltage	V _H (*2)	V _c =1V B=100mT	25	33	mV
Offset Voltage	V _o	V _c =1V B=0mT	-2.7	2.7	mV
Input Resistance	R _{in}	I=1mA B=0mT	400	700	Ω
Output Resistance	R _{out}	I=1mA B=0mT		2000	Ω
Temp. Coefficient of V _H	A	B=100mT I _c =1mA T _a =25 ~ 125°C		-0.06	%/°C
Temp. Coefficient of R _{in}	β	B=0mT I _c =1mA T _a =25 ~ 125°C		0.3	%/°C

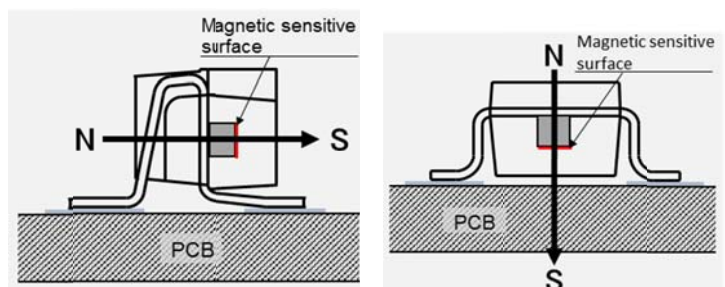
*2 : V_H = V_HM - V_o (V_HM=Hall output voltage measured value)

◆ Packaging ◆

Model	Packaging	Reel/ Bag Max. [pcs]	Carton Max. [pcs]
NHG529	Tape & Reel	2,500	10,000

*1 ◆ Advantage of NHG529 ◆

Not like the other SMD models, NHG529 has a magnetic sensitive surface mounted vertically against PCB by making a special lead process, and has excellent performance at horizontal flux detection.



NHG529

Standard SMD type (Ex. NHG411)

◆ Characteristics Curve ◆

