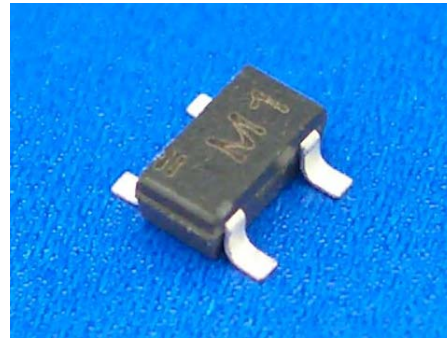


GaAs Type Hall Element



MODEL

NHG411



Features

- NHG411 is a linear type hall element using GaAs.
- The hall voltage changes linearly according to the magnetic flux density, and the linearity is excellent.
- Small surface mount package.
- Operating temperature range is wide, output variation due to temperature change is small.

Applications

- Brushless motors
- Current sensors
- Non-contacting magnetic sensors
- Position sensors, rotation sensors
- Other various magnetic sensors.

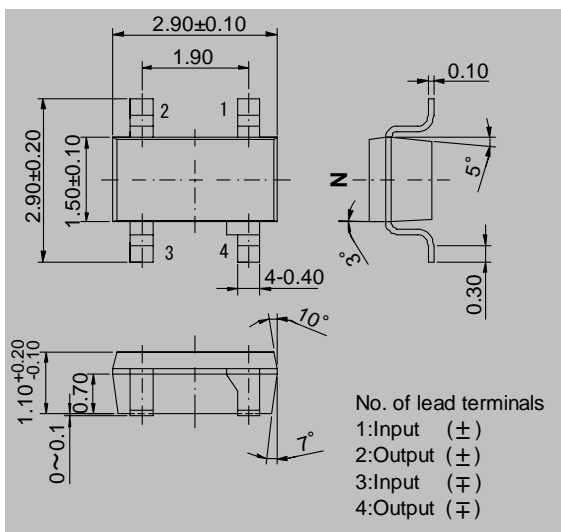
Specification

◆ Pb-Free product ◆

It corresponds to the Pb-free.

◆ Dimensional Drawing ◆

(UNIT: mm)



◆ Absolute Maximum Rating ◆

Item	Symbol	Limit	Unit
Max. Input Current	I _{cmax}	10(at25°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 *1	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	α	B=100mT I _c =1mA T _a =-40~80°C		-0.06	%/°C
Temp. Coefficient of R _{in}	β	B=0mT I _c =1mA T _a =-40~80°C		0.3	%/°C

※1: V_H = V_{HM} - V_o (V_{HM} = Hall output voltage measured value)

◆ Packaging ◆

Model	Packaging	Reel Max. (pcs)	Carton Max. (pcs)
NHG411	Taping reel	3,000	15,000

◆ Characteristics Curve ◆

