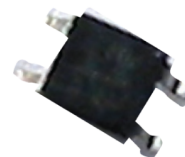


Description

GH-701 Hall sensor is a four terminal solid-state device that produces an output voltage, V_H , proportional to the product of the input current, I_C , and the magnetic flux density, B . The composition is made of Gallium Arsenide (GaAs) encapsulated in a surface mount package.



Features

- Low Cost
- Gallium Arsenide
- Extended Frequency Range
- Extended Temperature Range

SPECIFICATIONS	UNITS	GH-701
Input resistance, R_{in} (3)	ohms	650 to 850
Output resistance, R_{out} (3)	ohms	650 to 850
Magnetic sensitivity, V_H (2)	mV/kG	59-106
Max. resistive residual (1) voltage, $V_M @ B=0$	\pm mV	± 10
Max. control current @ 25°C, static air	mA	12
Nominal control current, I_{CN}	mA	5
Max. linearity error, (-10 kG to +10 kG)	\pm % of RDG	2
Mean temperature coefficient of V_H (-10°C to +80°C)	$\%$ /°C	-0.06
Mean temperature coefficient of (3) resistance (R_{in}) (25° to 125°C)	$\%$ /°C	0.3
Temperature dependence of resistive residual voltage (-10°C to +80°C)	\pm μ V/°C	8 typical
Operating temperature range	°C	-40 to 125
Storage temperature range	°C	-40 to 150

Notes

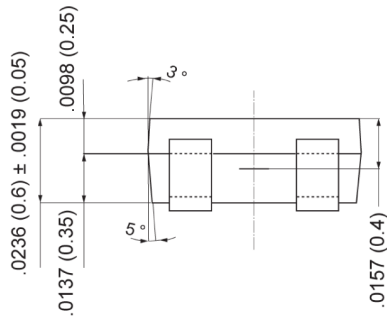
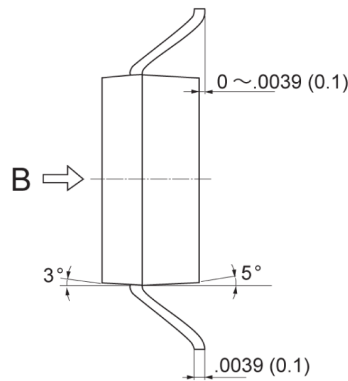
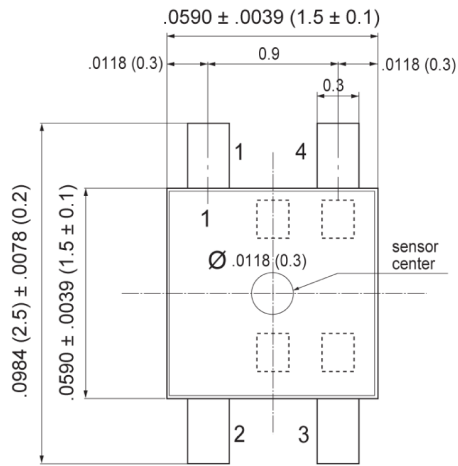
- (1) Nominal Control Current, $I_{CN} = 5\text{mA}$
 (2) $B = 1\text{kG}$ @ $I_C = 5\text{mA}$
 (3) $B = 0\text{G}$, $I_C = 0.1\text{mA}$

Mechanical Dimensions

All dimensions are in inches (millimeters)

Model GH-701

Hall Sensors



Pinning		
Input	1 (+)	3 (-)
Output	2 (+)	4 (-)

Pinning		
Input	1 (-)	3 (+)
Output	2 (-)	4 (+)

Note: Physical part is symmetrical and therefore part placement is identical in both orientations.

Taping

Shipped in packet-tape reel(4,000pcs per reel)



Note: Due to continuous process improvement, all specifications are subject to change without notice.



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