

Description

The GH Series Hall sensors are four-terminal solid-state devices that produce an output voltage, V_H , proportional to the product of the input current, I_c , and the magnetic flux density, B . The GH-600 Hall sensor uses a lead strip which is composed of DuPont's Kapton. The lead strip is terminated with tin plated copper alloy contacts spaced 0.100" (2.54 mm) on center. The Model GH-601 utilizes a specially designed lead strip which allows operation up to 50 kHz. The GH-700 is an ion implanted planar device encased in an epoxy surface-mount package. The GH-820 is a leaded device designed for through hole mounting to a PCB.

Features

- Low Cost
- Gallium Arsenide
- Extended Frequency Range
- High Sensitivity
- Choice of Mounting Configurations
- Flexible Leadstrip
- Extended Temperature Range

Models

1. GH-600
2. GH-601
3. GH-700
4. GH-820

		1.	2.	3.	4.
SPECIFICATIONS	UNITS	GH-600	GH-601	GH-700	GH-820
Input resistance, R_{in}	ohms	450 to 900	450 to 900	450 to 900	450 to 900
Output resistance, R_{out}	ohms	580 to 1,700	580 to 1,700	approx. 1,000	3,200 max.
Magnetic sensitivity, V_H (1)	mV/kG	50 to 140	50 to 140	50 to 140	80 to 190
Max. resistive residual voltage, V_M @ $B=0$ (1)	±mV	14	14	14	20
Max. control current @ 25 C, static air	mA	10	10	10	10
Nominal control current, I_{cn}	mA	5	5	5	5
Max. linearity error, (-10 kG to +10 kG)	±% of RDG	2	2	2	2
Mean temperature coefficient of V_H (-10 C to +80 C)	%/ C	-0.07 (2)	-0.07 (2)	-0.07 (2)	-0.06 (1)
Mean temperature coefficient of resistance (-10 C to +80 C)	%/ C	0.15 Typical (2)	0.15 Typical (2)	0.15 Typical (2)	0.15 Typical (1)
Temperature dependence of resistive residual voltage (-10 C to +80 C)	±µV/ C	1 Typical (2)	1 Typical (2)	1 Typical (2)	1 Typical (2)
Operating temperature range	C	-55 to +125	-55 to +125	-55 to +125	-55 to +125
Storage temperature range	C	-55 to +150	-55 to +150	-55 to +150	-55 to +150

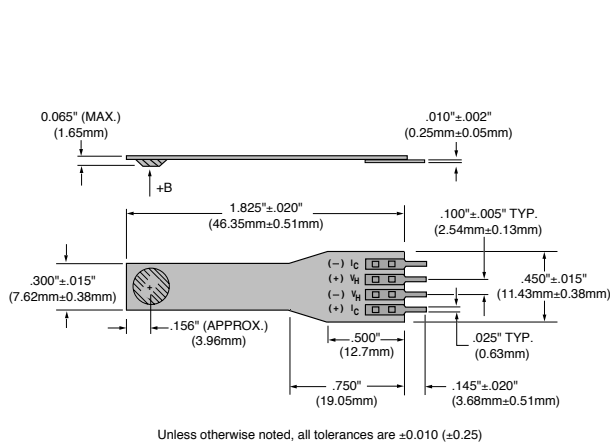
Notes

- (1) Nominal Control Current, $I_{cn}=5mA$
- (2) Control Current=1 mA

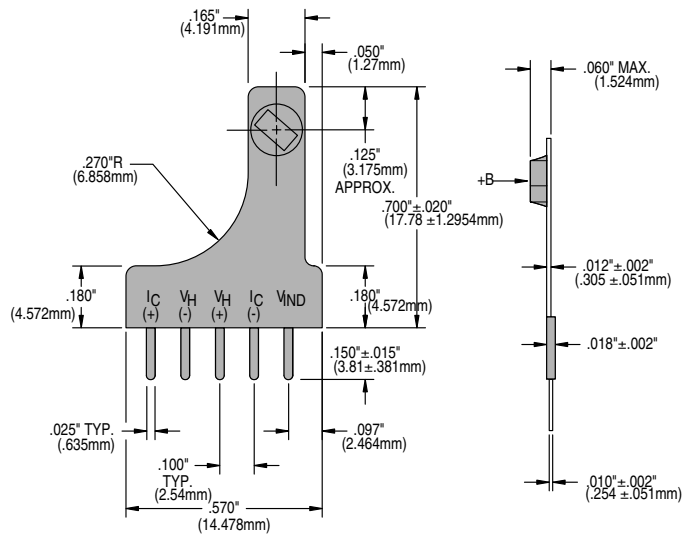
Gallium Arsenide GH Series

All dimensions are in inches (millimeters).

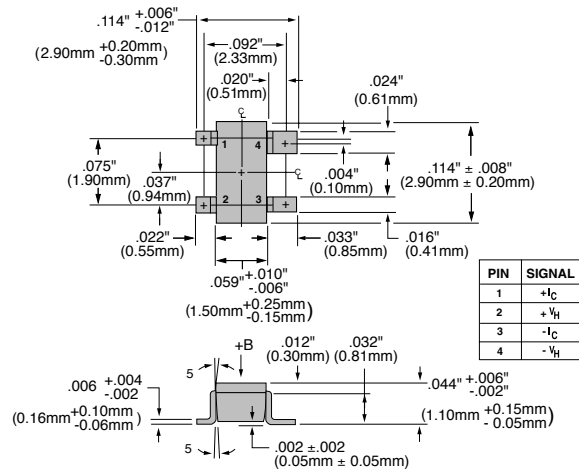
1. Model GH-600



2. Model GH-601



3. Model GH-700



4. Model GH-820

