



- Actuators
- Hall sensors**
- Motors
- Position sensors
- Power conversion
- Power generation

Hall sensors

Thin film HS-100 series

Contact

OECO
 4607 SE International Way
 Milwaukie, OR 97222
 USA

Tel: +1 (503) 659-5999

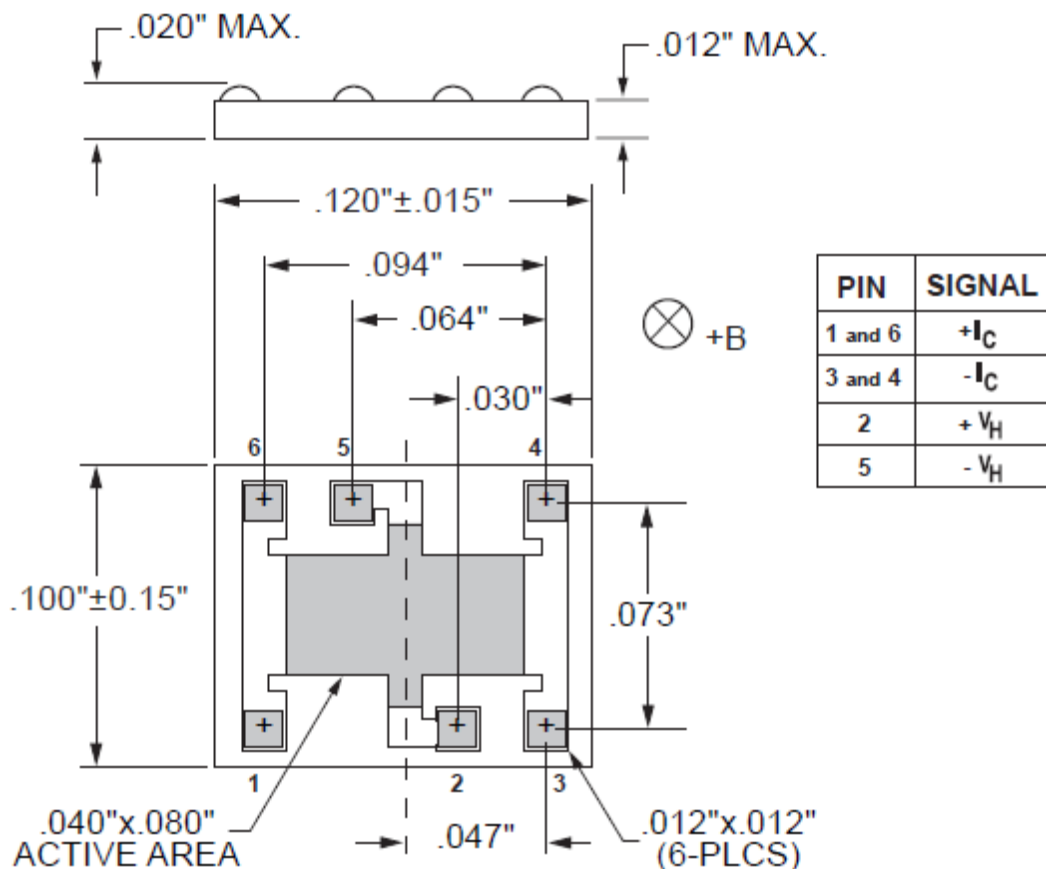
www.meggitt.com

www.fwbell.com

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The HS-100 is the world's thinnest thin film Hall sensor measuring 0.012 inches (0.3 mm) thick maximum. This sensor is manufactured from Indium Arsenide and offers stable operation over a wide temperature range of -55 °C to 185 °C. The HS-100 is packaged in a unique flip chip configuration and is available in bulk, tape and reel formats.

Model HS-100



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Specifications

<u>Model:</u>	<u>HS-100</u>
Input resistance	30 to 160 ohms
Output resistance	60 to 360 ohms
Maximum continuous control current	30 mA
Magnetic sensitivity	8 min. mV / kG
Misalignment voltage	6.0 max. mV
Mean temperature coefficient of magnetic sensitivity	-0.1 max. %/°C
Mean temperature coefficient of input resistance	0.1 max. %/°C
Temperature dependence of resistive residual voltage	10 max. $\pm\mu\text{V}/^\circ\text{C}$
Operating temperature	-55 to 185 °C
Storage temperature	-55 to 190 °C

1) Polarity: With field direction (B+) as shown and I_c entering the I_c (+) terminal, the positive Hall voltage will appear at the V_H (+) terminal.

2) Note: Unless otherwise specified, all specifications apply at nominal control current and at a temperature of 25 °C. Heat sinking can enhance performance in several respects

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