

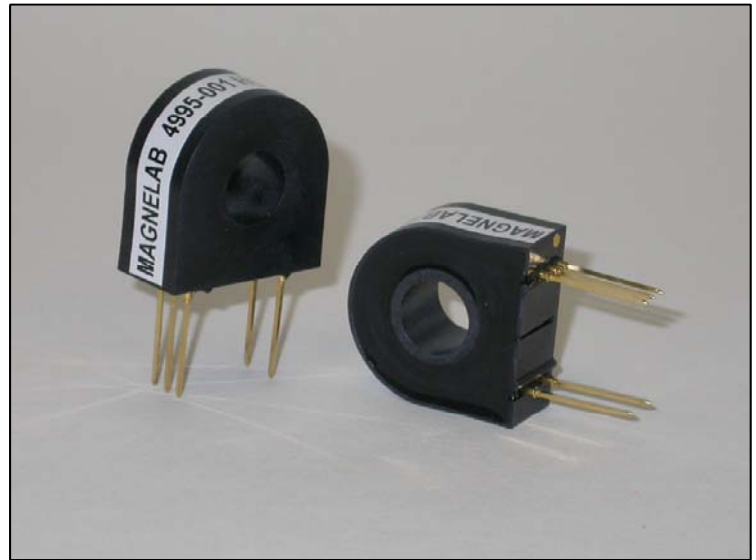
Descriptions:

Magnelab's Hall Effect Current Sensors (HCS) consist of a gapped core and a linear Hall Effect Sensor IC, and are capable of measuring both AC and DC current. The current in the primary conductor generates a magnetic field, which is sensed by the Hall Effect IC, amplified by a high gain amplifier and converted into a proportional output voltage. These current sensors are ratiometric, capable of measuring current in both directions. A positive current flow results in an increase in the output voltage while a negative current flow results in a decrease in the output voltage.

Electrical Specifications

All specifications at 25°C. Unless otherwise specified

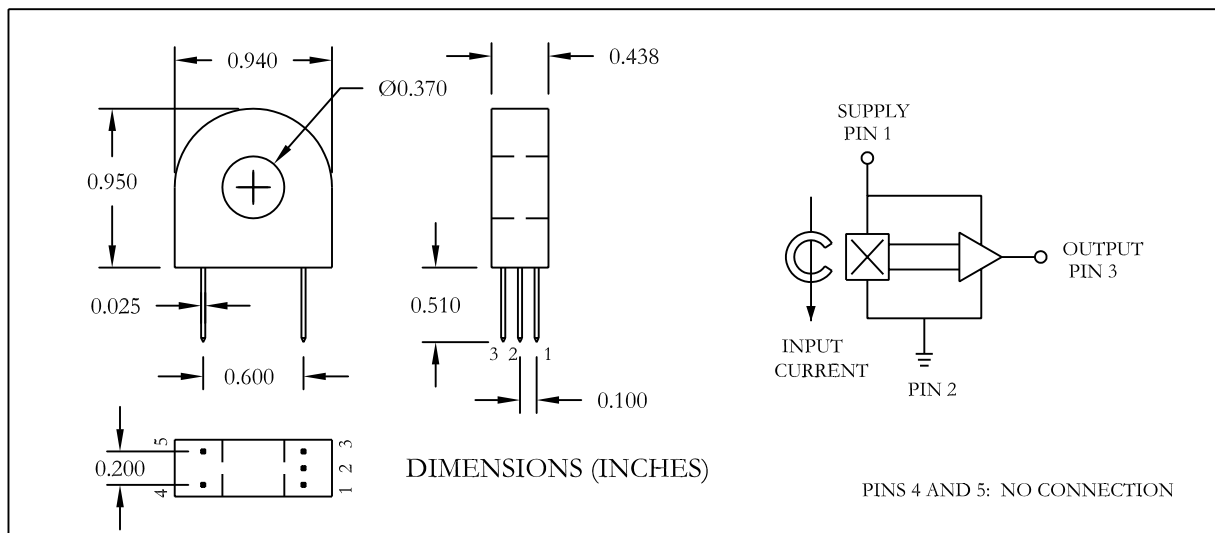
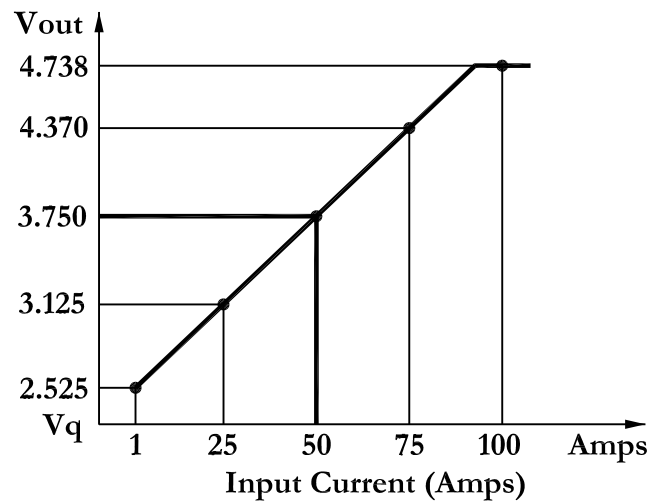
- Rated current _____ $\pm 50A$
- Linear up to (I_{peak}) _____ $\pm 70A$
- Sensitivity (at V_s = 5V) _____ 25mV/A
- Supply voltage V_s _____ 4.5V to 5.5V
- Supply current at V_s = 5V _____ 1.8mA to 4.5 mA
- Quiescent voltage V_q (at I = 0A) _____ V_s/2
- Temperature Range _____ -40°C to 150°C



MAGNELAB P/N	RATED CURRENT (Amps)
HCS-4995-050 **	50 *

* See graph for output voltage

** Other ratings and specifications are available



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