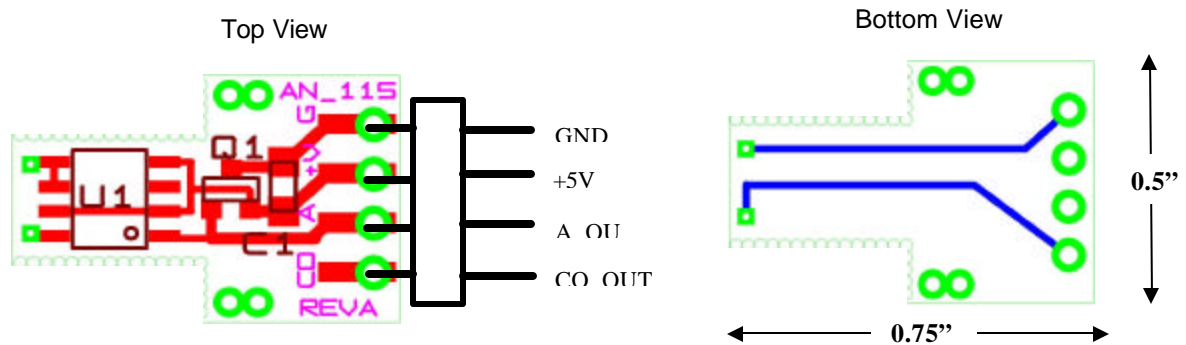


Applications:

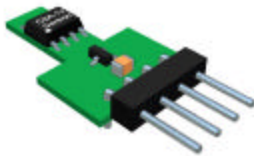
Very low current sensing with high dielectric isolation - Milliamps to 2 Amps (determined by wire gauge)

Operation:

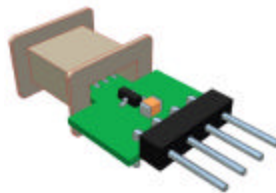
Output voltage can be measured between A-OUT1 and CO-OUT1 for a differential output or between A-OUT1 and GND for single ended output. Current measured flows through the wire that is wrapped around the bobbin. Sensitivity depends on the number of turns, the approximate level is $31\text{mV/A}\cdot t$ (example: 12 turns of #22 gauge wire will provide an output voltage sensitivity of 370 mV/amp or 740 mV for 2 amps of current flow). The number of turns depends on the desired sensitivity and size of wire used. An optional mu-metal shield wrapped around the coil will increase the sensitivity (10-15%) and will provide significant shielding against stray fields.



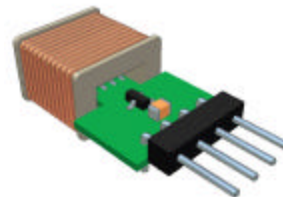
Basic PCB
(Included in kit)



Basic PCB with bobbin
(Included in kit)



Basic PCB with bobbin and multi-turn copper wire



Basic PCB with bobbin, multi-turn wire and shield

