

4000 Aurora Ave N.
Suites 5 & 6, Seattle, WA 98103
(206) 905 9477 8am to 5pm Pacific
sales@woodruffscientific.com
http://www.woodruffscientific.com

Model number(s): LowL-Air

Descriptive name: Low Inductance High Current Coil for use in air



Features:

- Single turn Copper coil has low inductance and can carry large currents
- Designed to be used in air
- Custom sizing and materials based on customer specifications
- Custom harnessing
- Demountable assembly allows for repositioning of coils (variable distances)
- Pulsed Power designs including capacitor sourcing, crowbar diodes, switching available

Operational ratings:

Temperature: ≤ 150C (set by polyimide coating on wires)

Field strength: ≤ 10 T (set by fuse limit in wire)



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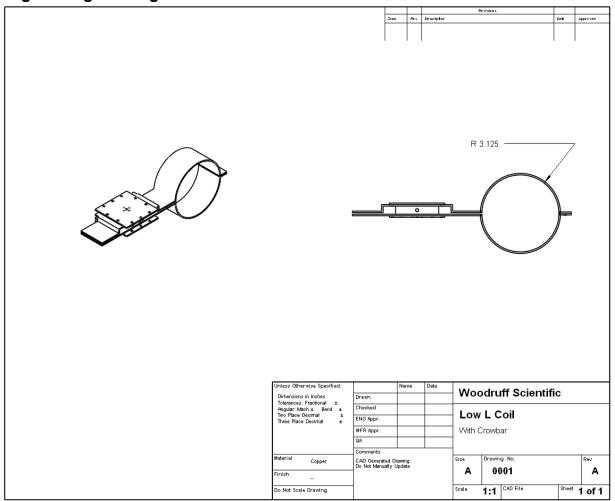
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Options:

Electronics: Static / time-varying
 Power supplies can be provided to program waveforms of almost arbitrary functions, from continuous operation to low duty-cycle operations. Computer control can be provided as well as thermal monitoring.

Engineering drawing:



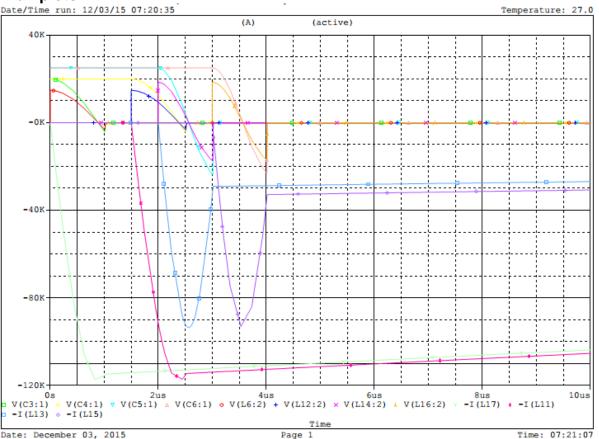


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Flux plots

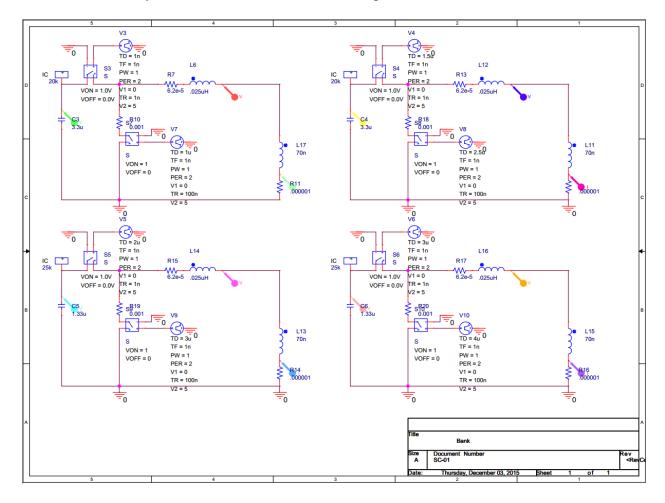




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Customization:

In addition to the options listed previously, the Low L coil can be customized in many different ways. For example, if the application is for pulsed operation with timescales short relative to the resistive diffusion time through the coil form, then an insulating break can be provided in the coil form itself. Other customizations can include form materials selection, wire selection, harnessing, shroud, orientation (two axis systems), and so forth.