



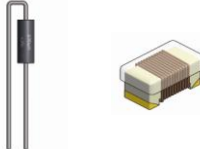

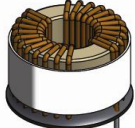




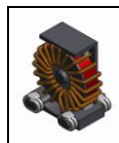
## Industrial / Commercial Application Examples

| Application                                    | Product Type  | Pictures  | Gowanda Advantages  |
|--|---|---|---|
| RFID Security                                  | Surface mount RF and power inductors                                      |    | <ul style="list-style-type: none"> <li>Molded flanges to protect winding during soldering.</li> <li>Magnet wire rated at 180°C minimum.</li> <li>Lead flattening is processed in multiple stages to prevent damage to the core.</li> </ul>  |
| Fire Security alarm system                     | Custom Low Profile Transformer  |    | <ul style="list-style-type: none"> <li>All transformer designs are application specific to meet the customer's needs.</li> <li>Have design support for up to 1kW.</li> </ul>  |
| Down Hole Systems                              | Toroids, 050HT and 106HT, also custom SMRF1812 and Custom High Temp. 0805 |   | <ul style="list-style-type: none"> <li>Standard operating temperature range:               <ul style="list-style-type: none"> <li>- Toroids/chips: -55°C to +200°C</li> <li>- SMRF 1812: -55°C to +180°C</li> </ul> </li> <li>Application specific toroid designs: -55°C to +260°C</li> </ul> |
| Commercial Router tool (Dewalt)                | Custom axial leaded with lead formed for board insertion                  |    | <ul style="list-style-type: none"> <li>Have the ability to create application specific molds and forms to meet the customer's requirements.</li> <li>Able to bend and configure the leads to meet customer's lead positioning requirements.</li> </ul>  |
| Commercial Dog Collar                          | Radial leaded Antenna Coil and CC0603 and CC0805                          |   | <ul style="list-style-type: none"> <li>Ceramic chip components are available in tight tolerance, matched pairs, multiple wire temperatures and capping material that will meet NASA out gassing specifications</li> </ul>   |
| Commercial Aircraft Antenna                    | Custom 10M Axial leaded Coil  |   | <ul style="list-style-type: none"> <li>Have multiple standard form sizes and core materials to meet the customer's frequency and power requirements.</li> <li>Able to design application specific inductance and tolerance to meet requirements.</li> </ul>                                   |
| Controls for Commercial Transportation (Buses) | Custom, ruggedized, Transformers  |  | <ul style="list-style-type: none"> <li>Transformers are application specific and can be made in multiple configurations.</li> <li>Have the ability to manufacture application specific bases &amp; mounts to meet footprint and vibration requirements.</li> </ul>                            |

### Application Specific Examples



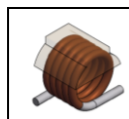
- Specialty designed cap and insert so that component can be bolted to PCB.
- Specialty designed for high vibration environment



- Molded vertical surface mount toroidal carrier & saves on board space.
- Robust design.
- Can be used for common mode transformer or inductor designs



- Molded base with cap that was specialty designed to meet high volume and low profile requirements.



- Specialty designed coil to meet specific electrical requirements.
- Surface mount cap has excellent chemical resistance and is securely bonded to wire

#### Gowanda Design Focus:

- Common Mode Chokes: Potted, radial, surface mount
- RF Inductors: Surface mount, axial leaded, shielded, wire wound chips, air coils.
- Power inductors: Surface mount, axial leaded, toroidal, high current drum core.

#### Gowanda Advantages:

- Gowanda designs application specific inductors and transformers to meet your needs.
- Vertically integrated: Build most tooling, build or modify our own coil forms and mold application specific base designs.
- ISO9001/AS9100 Quality Systems