

## Features and Benefits



Our **Shielded Power Surface Mount Inductors** are designed to provide optimal performance in high current power supplies and converters, and are offered in industry standard package sizes for universal compatibility with automatic pick-and-place equipment. The magnetically shielded, rugged, epoxy molded construction offers durability in harsh environments, high saturation current capabilities, and tolerances down to +/-2% of nominal inductance to minimize crosstalk between components, and allowing tighter assembly on valuable circuit board real estate. Standard operating temperature ranges are per MIL-specs, -55°C to +125°C. Custom designs to meet any application specific requirements, and space level up-screening to MIL-STD-981C Group A and B are always available.

Our **High Current Surface Mount Power Chokes** are designed to meet MIL-PRF-27 operating temperature range, -55°C to 130°C, and MIL-STD-202 shock and vibration requirements. With inductance values up to 100,000µH, and current ratings up to 11.91 Amps, these chokes are ideal for LED driver circuits, heavy motor drive circuits, and high current voltage regulators. Higher operating temperatures up to 200°C for application specific requirements are always available.

Our **High Temperature Power Toroids** feature operating temperature range up to 200°C, inductance values up to 100µH and current ratings up to 26.6 Amps. Flexible vertical or horizontal mounting configurations offer PCB layout solutions. The high temperature core material results in low core loss and minimal self-heating. Customized sizes to meet application specific requirements are always available.

All API Delevan Power inductors offer termination options in RoHS compliant Tin-Silver-Copper (Sn96.5Ag3.0Cu0.5) over Copper (Cu) or Tin-Lead (Sn63/Pb37) over Copper (Cu) to support military applications.



## Product Applications

- DC-DC Converters
- EMI Filters
- Voltage Regulators
- Output Chokes
- Switching Power Supplies
- HB LED Drivers
- Aerospace Electrical Power Systems
- High Current Voltage Regulators
- High Power Antenna Systems

## Market Applications

- Industrial
- Military
- Medical
- Avionics
- Aerospace
- Telecomm
- Transportation (Railroad)
- Down hole & Sub-Sea Oil Industry
- Automotive (Engine Compartment)
- Commercial

## API Delevan Product Line

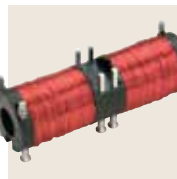


**LEVEL "S" RELIABILITY PRODUCTS:** The most reliable off the shelf inductors in the industry for use in high reliability applications, including communication systems, radar systems, guidance systems, fire control systems, avionics and space. Conforms to specification sheets MIL-PRF-39010 /01, /02, /03, /04, /05, /06 and /08. They include our full range of shielded and unshielded wire wound molded designs in phenolic (non-magnetic), powdered iron and ferrite core materials. Inductance values range from 0.10µH to 1,000µH, and operating temperatures from -55°C to +125°C.



### MILITARY PRODUCTS:

- Only qualified manufacturer to "S" Level Failure Rate of DSCC MIL-Spec MIL-PRF-39010
- Other DSCC MIL-Spec approvals:
  - MIL-PRF-15305, 25+ MIL-Spec qualifications
  - MIL-PRF-83446, 20+ MIL-Spec qualifications
  - MIL-PRF-27, 3 MIL-Spec qualifications
- MIL-STD-202: On-site environmental test lab featuring thermal shock, temperature cycling, moisture resistance, solderability, life test, calibration, real time X-ray, and failure analysis
- MIL-STD-690: Product maintenance testing featuring 15,000,000 hours load/temperature testing every 14 months



**CUSTOM PRODUCTS:** Our prototype services provide solutions within hours or days, not weeks or months. We provide solutions to meet the demands for extreme product miniaturization, and we are committed to delivering better electrical and mechanical performance than any other manufacturer in the industry. Adhering to daily Kaizen and Lean Manufacturing practices enable us to engineer custom products of the highest quality at the lowest cost possible.



### RF INDUCTORS:

- Axial-leaded, radial-leaded, and surface mount configurations
- Rugged epoxy molded construction using UL94V-0 materials
- Encapsulation provide resistance to corrosion in extreme environments
- Shielded configurations result in less than 2% coupling
- Tight tolerances to within +/-1% of nominal inductance
- Surface mount industry standard package sizes, with low-profile and temperature stable versions available
- Inductance ranges from 0.0018µH to 33,000µH
- -55°C to +125°C full Military operating temperature range



### POWER INDUCTORS:

- Axial-leaded, radial-leaded, and surface mount configurations
- Inductance ranges from 0.22µH to 100,000µH
- Current ratings from 0.050A to 19.9A
- High temperature designs operating at up to +220°C
- Designed to withstand high levels of mechanical shock and vibration

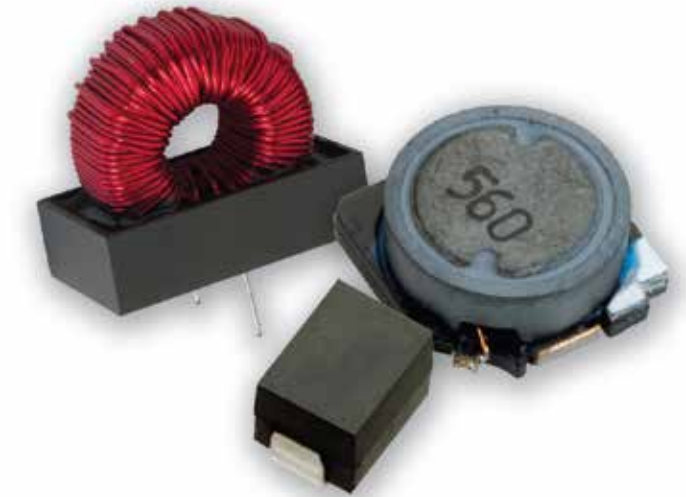
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**SURFACE MOUNT POWER INDUCTORS**



**THROUGH HOLE POWER INDUCTORS**