

## Power Products

### Power Inductors

iNRCORE offers a wide variety of inductor sizes and current ratings. Shielded drum core inductors incorporating 4 ruggedized PCB mounting clips have superior performance in applications with shock and vibration requirements. SLIC, SLED and POGO series toroid power inductors have ruggedized construction. Planar inductors meet the demanding requirements for low inductance high DC current.

#### Unique Features

- Comprehensive range of inductance and rated current
- 13 different physical sizes available
- Specially designed to meet MIL-PRF-27 Grade 6 requirements
- Designed to operate from -55°C up to +125°C
- Lead/Terminal finish: Tin-Lead (Sn/Pb)
- RoHS and REACH compliance versions on request
- Manufactured in AS9100D certified factory
- Custom design, testing and screening upon request

#### Product Range

- Shielded Drum Core
  - PL89XX Series, PL91XX Series, PL92XX Series, PL93XX Series, PL94XX Series, PL95XX Series
- Toroid Core
  - PL81XX Series, PL83XX Series, PL84XX Series, PL85XX Series, PL86XX Series, PL87XX Series
- Planar Inductors
  - PL101XX Series, Inductance Range 0.45µH, Rated Current Range: 0.40A ~ 73A

### Common Mode Chokes

iNRCORE's SLIC and POGO Series common mode chokes have ruggedized construction to meet MIL-PRF-27 Grade 6 requirements. iNRCORE offers a wide variety of sizes and current ratings.

#### Unique Features

- Comprehensive range of inductance and rated current
- Ruggedized to meet MIL-PRF-27 Grade 6 requirements
- Designed to operate from -55°C up to +125°C

- Lead/Terminal finish: Tin-Lead (Sn/Pb)
- RoHS and REACH compliance versions on request
- Manufactured in AS9100D certified factory
- Custom design, testing and screening upon request

#### Product Range

- PL82XX Series
- Inductance Range: 0.22 $\mu$ H ~ 10.15 $\mu$ H
- Rated Current Range: 1.22A ~ 20A

#### Applications

- AC-DC Converter, DC-DC Converter

#### Gate Drive Transformers

iNRCORE's gate drive transformers are ruggedized to meet MIL-PRF-27 Grade 5 requirements. iNRCORE offers Functional and Basic insulation. Reinforced insulation is available upon request.

#### Unique Features

- ET (Volt-Time Product) up to 60V\* $\mu$ sec
- Basic and Functional insulation available
- Ruggedized to meet MIL-PRF-27 Grade 5 requirements
- Designed to operate from -55°C up to +125°C
- Lead/Terminal finish: Tin-Lead (Sn/Pb)
- RoHS and REACH compliance versions on request
- Manufactured in AS9100D certified factory
- Custom design, testing and screening upon request

#### Product Range

- 8 package sizes
- Functional insulation
- Basic insulation

#### Applications

- AC-DC Converter, DC-DC Converter

## Current Sense Transformers

iNRCORE's current sense transformers have an additional clip for secure core halves bonding. Current ratings up to 35A are available. Custom designs are available on request.

### Unique Features

- Additional clip to bond core halves together
- 10A – 35A current rating available
- Wide range of turns ratio available
- Ruggedized to meet MIL-PRF-27 Grade 6 requirements
- Designed to operate from -55°C up to +125°C
- Lead/Terminal finish: Tin-Lead (Sn/Pb)
- RoHS and REACH compliance versions on request
- Manufactured in AS9100D certified factory
- Custom design, testing and screening upon request

### Product Range

- PL3250 – PL3257: 10A Rated Current
- PL3258 – PL3265: 20A Rated Current
- PL18XX: 35A Rated Current

### Applications

- AC-DC Converter, DC-DC Converter

## Planar Transformers

iNRCORE's high frequency planar transformers and inductors incorporate 2 additional clips for secure board mounting, which have superior performance in applications with shock and vibration requirements. iNRCORE can provide custom design services, as well as perform specialized screening and qualification testing.

### Unique Features

- Incorporated 2 additional clips for secure board mounting
- Rated Power up to 400W
- Ruggedized to meet MIL-PRF-27 Grade 6 requirements
- Designed to operate from -55°C up to +125°C
- Lead/Terminal finish: Tin-Lead (Sn/Pb)
- RoHS and REACH compliance versions on request

- Manufactured in AS9100D certified factory
- Custom design, testing and screening upon request

#### Product Range

- PL102XX Series: 250W Rated Power
- PL103XX Series: 140W Rated Power
- PL104XX Series: 300W Rated Power

#### Applications

- AC-DC Converter, DC-DC Converter



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