POWER MAGNETICS

PLATFORM OVERVIEW: SMT CURRENT SENSE MAGNETICS (FOR SWITCHING POWER SUPPLIES)

**SMT PA0368.xxxNL Series**
- 8.4mm x 8.4mm x 3.3mm Max
- Turns Ratio: 1:50 up to 1:125
- RMS current: 4Arms
- Hi-pot Voltage: 500Vrms

**SMT PA1005.xxxNL Series**
- 8.4mm x 7.2mm x 5.1mm Max
- Turns Ratio: 1:20 up to 1:125
- RMS current: 20Arms
- Hi-pot Voltage: 500Vrms
  (higher current version of P82xNL series)

**SMT PE-68xxxNL Series**
- 18.2mm x 15.0mm x 7.6mm Max
- Turns Ratio: 1:1:50 up to 1:1:200
- RMS current: 15Arms
- Hi-pot Voltage: 500Vrms

**SMT PB002xNL Series**
- 19.9mm x 14.5mm x 10.0mm Max
- Turns Ratio: 1:50 up to 1:200
- RMS current: 35Arms
- Hi-pot Voltage: 500Vrms
THT PE-51xxxNL Series
- 17.1mm x 9.9mm x 20.4mm Max
- VDE recognized component
- Turns Ratio: 50T to 200T CT
- RMS current: 20Arms
- Hi-pot Voltage: 3000Vrms
  (available also as FIS1x1 Series)
- PE-51688NL, FIS101NL

THT FIS 1x5NL Series
- 17.6mm x 15.0mm x 12.0mm Max
- Turns Ratio: 1:50 up to 1:500
- RMS current: 25Arms
- Hi-pot Voltage: 4000Vrms
- FIS105NL

THT PE-67xxxNL Series
- 19.1mm x 14.4mm x 19.1mm Max
- Turns Ratio: 1:50 up to 1:300
- RMS current: 35Arms
- Hi-pot Voltage: 500Vrms
- PE-67050NL

THT PE-6xxxxNL Series
- 22.9mm x 17.8mm x 17.8mm Max
- VDE Approved
- Turns Ratio: 1:50 up to 1:300
- RMS current: 20Arms
- Hi-pot Voltage: 3000Vrms
- PE-63586NL

THT P058xNL Series
- 20.6mm x 14.7mm x 19.1mm Max
- UL/C-UL recognized component
- Turns Ratio: 1:1:50 up to 1:1:200
- RMS current: 35Arms
- Hi-pot Voltage: 3000Vrms
- P0581NL
POWER MAGNETICS

PRODUCT OVERVIEW: CURRENT SENSE MAGNETICS (SIDEWINDER FOR 50/60HZ AC)

The Pulse Sidewinder® products are the ultimate evolution of the Rogowski Coil principle for AC current sensing applications. Pulse’ patent pending winding technique has been engineered to provide highly linear output voltage over a very wide dynamic range from 1.0 to 1000 Amperes (A), making them especially suited for applications such as distributed power generation, renewable energy and storage, load balancing, power monitoring, advanced metering infrastructure (AMI), circuit breaker panels, and smart meters.

- 50/60 Hz, Single Phase, AC Current Sensor
- Dynamic Range from 0.1 to 1000 Amps
- For ANSI C12.20 Smart Meters
- For IEC 62053-22 Smart Meters
- Phase error < 0.05 degree
- Bandwidth 300KHz
- Immune to external AC magnetic fields
- Immune to DC current & DC magnetic field
- Very low temperature coefficient
- Patent pending

Go to www.pulseelectronics.com/SIDEWINDER
For more information, including product data sheets, Sidewinder Overview, Sidewinder Reliability Report, IC Cross Reference List, and Metering Application Notes.

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<th>Part Number</th>
<th>Accuracy Class</th>
<th>$K_r^*$ (µV/Hz typ)</th>
<th>@ 60 Hz (µV/A)</th>
<th>Current Range</th>
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<td>7.66</td>
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Electrical Specifications at 25°C Temp Range -40°C to 130°C

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