Current-compensated Chokes

Rated currents from 0.3 to 10 A
DC to 400 Hz frequency
100 kHz to 3 MHz common-mode resonance frequency
Dual-choke configurations
Multiple PCB-mounting options

Performance indicators

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<th>Inductance value (mH)</th>
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<td>Rated current (A)</td>
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Technical specifications

- Operating voltage: 300 VAC
- Operating frequency: DC to 400 Hz
- Rated currents: 0.3 to 10 A at rated ambient temperature
- Rated inductance: 0.4 to 100 mH
- Stray inductance: Typically 1% of L
- Inductance reduction (DC bias with IN): Less than 10% (25°C)
- High potential test voltage winding-to-winding @ 25°C: 1500 VAC, 60 sec, guaranteed
- High potential test voltage winding-to-housing @ 25°C: 4000 VAC, 60 sec, guaranteed
- Surge current @ 10 msec: 20 x IN @ 25°C
- Temperature range (operation and storage): -40°C to 100°C (40/100/50) acc. IEC 60068-1
- Flammability corresponding to Potting compound UL 94V-0
  Ringcore coating UL 94V-0
  UL 1283, IEC/EN 60938-1
- Design corresponding to

Features and benefits

- High saturation resistance and excellent thermal behavior
- Through hole pin connections
- Dual-choke configuration
- Small compact design
- Multiple housing options
- Custom-specific versions are available on request
- Higher temperature versions
- Fully potted design usable for ruggedized applications

Typical applications

- Switch-mode power applications
- Suppressing common-mode interference levels
- EMI input filters
- For suppression-equipment with no earth connection
- Phase-angle control circuits in combination with saturating chokes

Typical electrical schematic

1 2

3 4
## Choke selection table

<table>
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<tr>
<th>Choke</th>
<th>Current @ ambient temperature (A)</th>
<th>Inductance @ ambient temperature (mH)</th>
<th>Resistance (mOhm)</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>H (mm)</th>
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Test conditions: Measuring frequency: 10 kHz; 50 mV; Inductance tolerance: ±50%; -30%; Resistance tolerance: ±15% @ 25°C; Electrical characteristics @ 25°C: ±2°C; Stray Inductance measurement between pin 1 and 2 (pin 3 and 4 shorted) For mechanical tolerances refer to mechanical data section.
Thermal Derating

If higher ambient temperatures than the specified apply, the nominal current needs to be reduced according to the graph below.
Typical attenuation/resonance frequency characteristics
Per CISPR 17; 50 Ω/50 Ω asym
X can be exchanged with either 1 or 2 for different housing configuration, attenuation is similar
Mechanical data

RN 102

RN 112, RN 114, RN 116, RN 122, RN 142/3

RN 152

RN 202

RN 204

RN 212, RN 218

RN 214, RN 216, RN 222, RN 232, RN 242

Dimensions

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<tr>
<td>RN 222</td>
<td>15.0 mm</td>
<td>12.5 mm</td>
<td>29.3 mm</td>
<td>18.0 mm</td>
<td>31.0 mm</td>
<td>4.0 mm</td>
<td>0.8 mm</td>
</tr>
<tr>
<td>RN 232</td>
<td>15.0 mm</td>
<td>12.5 mm</td>
<td>34.3 mm</td>
<td>18.0 mm</td>
<td>31.0 mm</td>
<td>4.2 mm</td>
<td>0.8 mm</td>
</tr>
<tr>
<td>RN 242</td>
<td>15.0 mm</td>
<td>12.5 mm</td>
<td>34.3 mm</td>
<td>18.0 mm</td>
<td>31.0 mm</td>
<td>4.2 mm</td>
<td>0.8 mm</td>
</tr>
</tbody>
</table>

Pin material: Steel (base), Cu (under plating), Sn (final plating 6µm)

Please visit [www.schaffner.com](http://www.schaffner.com) to find more details on filter connections.
EMC/EMI Products

Schaffner Group

Datasheets

28 Jan 2020

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