



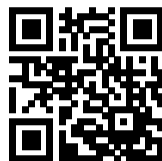
**THE DATASHEET OF
RN122-3-02-4M5**



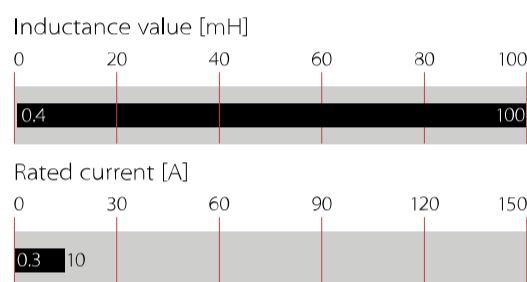
Current-compensated Chokes



- 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



Technical Specifications

| | |
|--|---|
| Nominal operating voltage | 300 VAC |
| Rated currents | 0.3 to 10 A @ 40°C |
| Operating frequency | DC to 400 Hz |
| Rated inductance | 0.4 to 100 mH |
| Stray inductance | Typically 1% of L_n |
| Inductance reduction (DC bias with I_N) | Less than 10% (25°C) |
| Surge current @ 10 msec | 20 x nominal current @ 25°C |
| Temperature range (operation and storage) | -40°C to 100°C (40/100/56) acc. IEC 60068-1 |
| High potential test voltage winding-to-winding @ 25°C | 1500 VAC, 60 sec, guaranteed 1500 VAC, 2 sec, factory test |
| Winding-to-housing @ 25°C | Winding-to-housing @ 25°C |
| Flammability corresponding to | Housing UL 94V-0 Potting compound UL 94V-0 |
| Design corresponding to | UL 1283, IEC/EN 60938-1 |
| MTBF (Mil-HB-217F) | >5,000,000 h @ 40°C/230 V |

Approvals & Compliances



RN chokes are attenuating common-mode or asymmetric (P/N > E) interference signals, by being connected in series with the phase and neutral lines of an AC powerline input. Symmetrical components of the noise are also attenuated by the leakage inductance (stray inductance) of the windings. These chokes are typically used in conjunction with suppression capacitors.

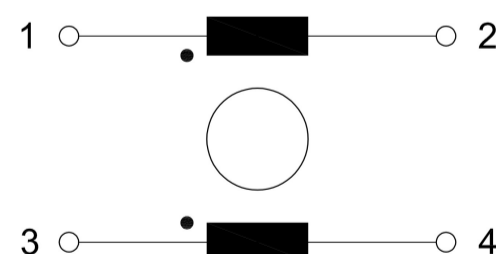
Features and Benefits

- 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



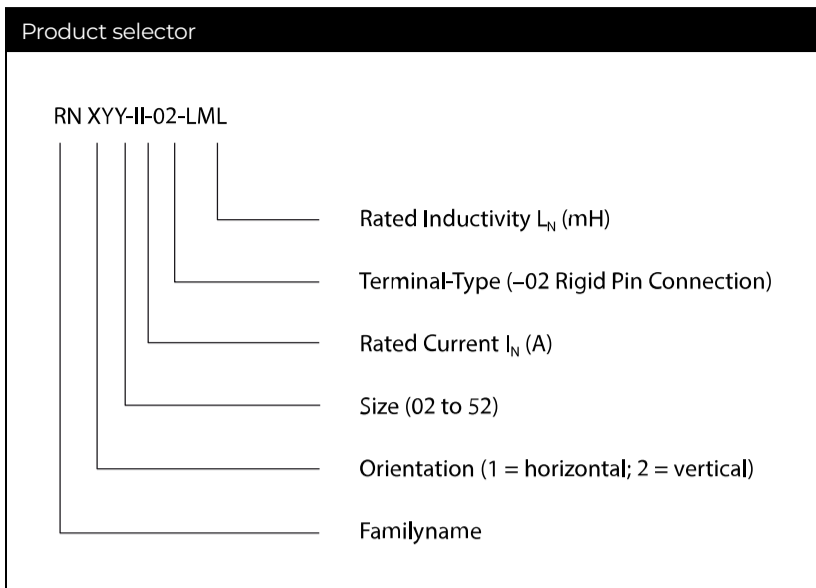
Choke Selection Table

| Choke | Buy | Current (In) [A] | @ ambient temperature [°C] | Inductance (LN) [mH] | Resistance (Rdc) [mOhm] | A [mm] | B [mm] | H [mm] | Weight (g) |
|------------------|---|------------------------|----------------------------------|----------------------------|-------------------------------|-----------|-----------|-----------|---------------|
| RN102-0.3-02-22M |  | 0.3 | 40 | 22.0 | 1300 | 10.0 | 10.0 | 9.0 | 4 |
| RN102-0.3-02-12M |  | 0.3 | 40 | 12.0 | 1100 | 10.0 | 10.0 | 9.0 | 3 |
| RN102-0.6-02-4M4 |  | 0.6 | 40 | 4.4 | 380 | 10.0 | 10.0 | 9.0 | 3 |
| RN102-1-02-3M0 |  | 1.0 | 40 | 3.0 | 210 | 10.0 | 10.0 | 9.0 | 3 |
| RN102-1.5-02-1M6 |  | 1.5 | 40 | 1.6 | 94 | 10.0 | 10.0 | 9.0 | 3 |
| RN102-2-02-1M1 |  | 2.0 | 40 | 1.1 | 70 | 10.0 | 10.0 | 9.0 | 3 |
| RN112-0.4-02-39M |  | 0.4 | 40 | 39.0 | 1500 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-0.4-02-27M |  | 0.4 | 40 | 27.0 | 1400 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-0.5-02-27M |  | 0.5 | 40 | 27.0 | 1200 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-0.5-02-18M |  | 0.5 | 40 | 18.0 | 1100 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-0.5-02-15M |  | 0.5 | 40 | 15.0 | 700 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-0.6-02-15M |  | 0.6 | 40 | 15.0 | 490 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-0.8-02-10M |  | 0.8 | 40 | 10.0 | 380 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-1.2-02-6M8 |  | 1.2 | 40 | 6.8 | 250 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-1.5-02-3M3 |  | 1.5 | 40 | 3.3 | 102 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-2-02-1M8 |  | 2.0 | 40 | 1.8 | 74 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-2-02-1M0 |  | 2.0 | 40 | 1.0 | 70 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-2.6-02-0M4 |  | 2.6 | 40 | 0.4 | 40 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-3.6-02-0M4 |  | 3.6 | 40 | 0.4 | 27 | 15.0 | 10.0 | 12.6 | 6 |
| RN112-4-02-0M7 |  | 4.0 | 40 | 0.7 | 24 | 15.0 | 10.0 | 12.6 | 6 |
| RN114-0.3-02-47M |  | 0.3 | 40 | 47.0 | 1700 | 20.1 | 12.5 | 13.2 | 10 |
| RN114-0.5-02-39M |  | 0.5 | 40 | 39.0 | 830 | 20.1 | 12.5 | 13.2 | 11 |
| RN114-0.8-02-27M |  | 0.8 | 40 | 27.0 | 500 | 20.1 | 12.5 | 13.2 | 11 |
| RN114-1-02-15M |  | 1.0 | 40 | 15.0 | 370 | 20.1 | 12.5 | 13.2 | 10 |
| RN114-1.2-02-10M |  | 1.2 | 40 | 10.0 | 195 | 20.1 | 12.5 | 13.2 | 10 |
| RN114-1.5-02-6M8 |  | 1.5 | 40 | 6.8 | 123 | 20.1 | 12.5 | 13.2 | 11 |
| RN114-2-02-4M2 |  | 2.0 | 40 | 4.2 | 100 | 20.1 | 12.5 | 13.2 | 11 |
| RN114-2.5-02-3M3 |  | 2.5 | 40 | 3.3 | 72 | 20.1 | 12.5 | 13.2 | 11 |
| RN114-3-02-2M0 |  | 3.0 | 40 | 2.0 | 52 | 20.1 | 12.5 | 13.2 | 10 |
| RN114-4-02-1M5 |  | 4.0 | 40 | 1.5 | 34 | 20.1 | 12.5 | 13.2 | 11 |
| RN116-0.5-02-47M |  | 0.5 | 60 | 47.0 | 960 | 20.1 | 12.5 | 13.2 | 11 |
| RN116-0.5-02-39M |  | 0.5 | 60 | 39.0 | 920 | 20.1 | 12.5 | 13.2 | 11 |
| RN116-0.5-02-27M |  | 0.5 | 60 | 27.0 | 790 | 20.1 | 12.5 | 13.2 | 11 |
| RN116-0.8-02-27M |  | 0.8 | 60 | 27.0 | 370 | 20.1 | 12.5 | 13.2 | 13 |
| RN116-1-02-15M |  | 1.0 | 60 | 15.0 | 260 | 20.1 | 12.5 | 13.2 | 12 |
| RN116-1-02-10M |  | 1.0 | 60 | 10.0 | 210 | 20.1 | 12.5 | 13.2 | 11 |
| RN116-1.3-02-6M8 |  | 1.3 | 60 | 6.8 | 140 | 20.1 | 12.5 | 13.2 | 12 |
| RN116-1.5-02-10M |  | 1.5 | 60 | 10.0 | 148 | 20.1 | 12.5 | 13.2 | 12 |
| RN116-1.7-02-4M0 |  | 1.7 | 60 | 4.0 | 87 | 20.1 | 12.5 | 13.2 | 12 |
| RN116-2-02-3M3 |  | 2.0 | 60 | 3.3 | 70 | 20.1 | 12.5 | 13.2 | 12 |
| RN116-2-02-2M2 |  | 2.0 | 60 | 2.2 | 66 | 20.1 | 12.5 | 13.2 | 11 |
| RN122-0.5-02-56M |  | 0.5 | 40 | 56.0 | 1800 | 25.0 | 15.0 | 16.5 | 20 |
| RN122-0.6-02-47M |  | 0.6 | 40 | 47.0 | 1300 | 25.0 | 15.0 | 16.5 | 20 |
| RN122-0.8-02-39M |  | 0.8 | 40 | 39.0 | 1000 | 25.0 | 15.0 | 16.5 | 20 |
| RN122-1-02-18M |  | 1.0 | 40 | 18.0 | 630 | 25.0 | 15.0 | 16.5 | 19 |
| RN122-1-02-10M |  | 1.0 | 40 | 10.0 | 560 | 25.0 | 15.0 | 16.5 | 19 |
| RN122-1.5-02-10M |  | 1.5 | 40 | 10.0 | 250 | 25.0 | 15.0 | 16.5 | 20 |
| RN122-2-02-6M8 |  | 2.0 | 40 | 6.8 | 156 | 25.0 | 15.0 | 16.5 | 20 |
| RN122-2-02-5M0 |  | 2.0 | 40 | 5.0 | 140 | 25.0 | 15.0 | 16.5 | 21 |
| RN122-2.5-02-5M6 |  | 2.5 | 40 | 5.6 | 110 | 25.0 | 15.0 | 16.5 | 20 |
| RN122-3-02-4M5 |  | 3.0 | 40 | 4.5 | 80 | 25.0 | 15.0 | 16.5 | 21 |
| RN122-4-02-3M3 |  | 4.0 | 40 | 3.3 | 46 | 25.0 | 15.0 | 16.5 | 22 |
| RN122-4-02-1M8 |  | 4.0 | 40 | 1.8 | 42 | 25.0 | 15.0 | 16.5 | 22 |

| Choke | Buy | Current (In) [A] | @ ambient temperature [°C] | Inductance (Ln) [mH] | Resistance (R DC) [mOhm] | A [mm] | B [mm] | H [mm] | Weight (g) |
|-------------------|-----|------------------------|----------------------------------|----------------------------|--------------------------------|-----------|-----------|-----------|---------------|
| RN142-0.5-02-82M | | 0.5 | 40 | 82.0 | 2700 | 30.0 | 20.0 | 19.7 | 36 |
| RN142-1-02-33M | | 1.0 | 40 | 33.0 | 810 | 30.0 | 20.0 | 19.7 | 37 |
| RN142-1.4-02-27M | | 1.4 | 40 | 27.0 | 500 | 30.0 | 20.0 | 19.7 | 40 |
| RN142-2-02-6M8 | | 2.0 | 40 | 6.8 | 192 | 30.0 | 20.0 | 19.7 | 36 |
| RN142-4-02-3M3 | | 4.0 | 40 | 3.3 | 67 | 30.0 | 20.0 | 19.7 | 38 |
| RN142-6-02-1M8 | | 6.0 | 40 | 1.8 | 20 | 30.0 | 20.0 | 19.7 | 40 |
| RN143-0.5-02-100M | | 0.5 | 40 | 100.0 | 2900 | 30.0 | 20.0 | 19.7 | 36 |
| RN143-1-02-47M | | 1.0 | 40 | 47.0 | 890 | 30.0 | 20.0 | 19.7 | 38 |
| RN143-2-02-10M | | 2.0 | 40 | 10.0 | 240 | 30.0 | 20.0 | 19.7 | 42 |
| RN143-4-02-3M9 | | 4.0 | 40 | 3.9 | 59 | 30.0 | 20.0 | 19.7 | 39 |
| RN143-6-02-1M8 | | 6.0 | 40 | 1.8 | 20 | 30.0 | 20.0 | 19.7 | 42 |
| RN152-1-02-68M | | 1.0 | 40 | 68.0 | 1300 | 40.0 | 15.0 | 25.0 | 75 |
| RN152-2-02-18M | | 2.0 | 40 | 18.0 | 450 | 40.0 | 15.0 | 25.0 | 64 |
| RN152-4-02-6M8 | | 4.0 | 40 | 6.8 | 87 | 40.0 | 15.0 | 25.0 | 74 |
| RN152-6-02-3M9 | | 6.0 | 40 | 3.9 | 42 | 40.0 | 15.0 | 25.0 | 68 |
| RN152-8-02-2M7 | | 8.0 | 40 | 2.7 | 22 | 40.0 | 15.0 | 25.0 | 73 |
| RN152-10-02-1M8 | | 10.0 | 40 | 1.8 | 14 | 40.0 | 15.0 | 25.0 | 73 |
| RN202-0.3-02-22M | | 0.3 | 40 | 22.0 | 1300 | 5.1 | 15.2 | 13.5 | 4 |
| RN202-0.3-02-12M | | 0.3 | 40 | 12.0 | 1100 | 5.1 | 15.2 | 13.5 | 4 |
| RN202-0.6-02-4M4 | | 0.6 | 40 | 4.4 | 380 | 5.1 | 15.2 | 13.5 | 4 |
| RN202-1-02-3M0 | | 1.0 | 40 | 3.0 | 210 | 5.1 | 15.2 | 13.5 | 4 |
| RN202-1.5-02-1M6 | | 1.5 | 40 | 1.6 | 94 | 5.1 | 15.2 | 13.5 | 4 |
| RN202-2-02-1M1 | | 2.0 | 40 | 1.1 | 70 | 5.1 | 15.2 | 13.5 | 4 |
| RN204-0.3-02-22M | | 0.3 | 40 | 22.0 | 1300 | 7.6 | 10.0 | 14.3 | 3 |
| RN204-0.3-02-12M | | 0.3 | 40 | 12.0 | 960 | 7.6 | 10.0 | 14.3 | 3 |
| RN204-0.6-02-4M4 | | 0.6 | 40 | 4.4 | 350 | 7.6 | 10.0 | 14.3 | 3 |
| RN204-1-02-3M0 | | 1.0 | 40 | 3.0 | 192 | 7.6 | 10.0 | 14.3 | 3 |
| RN204-1.5-02-1M6 | | 1.5 | 40 | 1.6 | 96 | 7.6 | 10.0 | 14.3 | 3 |
| RN204-2-02-1M1 | | 2.0 | 40 | 1.1 | 57 | 7.6 | 10.0 | 14.3 | 3 |
| RN212-0.4-02-39M | | 0.4 | 40 | 39.0 | 1500 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-0.4-02-27M | | 0.4 | 40 | 27.0 | 1400 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-0.5-02-27M | | 0.5 | 40 | 27.0 | 1200 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-0.5-02-18M | | 0.5 | 40 | 18.0 | 1100 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-0.5-02-15M | | 0.5 | 40 | 15.0 | 700 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-0.6-02-15M | | 0.6 | 40 | 15.0 | 490 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-0.8-02-10M | | 0.8 | 40 | 10.0 | 380 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-1.2-02-6M8 | | 1.2 | 40 | 6.8 | 250 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-1.5-02-3M3 | | 1.5 | 40 | 3.3 | 102 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-2-02-1M8 | | 2.0 | 40 | 1.8 | 74 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-2-02-1M0 | | 2.0 | 40 | 1.0 | 70 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-2.6-02-0M4 | | 2.6 | 40 | 0.4 | 40 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-3.6-02-0M4 | | 3.6 | 40 | 0.4 | 27 | 10.0 | 15.0 | 20.0 | 8 |
| RN212-4-02-0M7 | | 4.0 | 40 | 0.7 | 24 | 10.0 | 15.0 | 20.0 | 8 |
| RN214-0.3-02-47M | | 0.3 | 40 | 47.0 | 1700 | 12.5 | 10.0 | 25.0 | 14 |
| RN214-0.5-02-56M | | 0.5 | 40 | 56.0 | 1700 | 12.5 | 10.0 | 25.0 | 15 |
| RN214-0.5-02-39M | | 0.5 | 40 | 39.0 | 830 | 12.5 | 10.0 | 25.0 | 14 |
| RN214-0.8-02-27M | | 0.8 | 40 | 27.0 | 500 | 12.5 | 10.0 | 25.0 | 15 |
| RN214-1-02-15M | | 1.0 | 40 | 15.0 | 370 | 12.5 | 10.0 | 25.0 | 14 |
| RN214-1.2-02-10M | | 1.2 | 40 | 10.0 | 195 | 12.5 | 10.0 | 25.0 | 15 |
| RN214-1.5-02-6M8 | | 1.5 | 40 | 6.8 | 123 | 12.5 | 10.0 | 25.0 | 15 |
| RN214-2-02-4M2 | | 2.0 | 40 | 4.2 | 100 | 12.5 | 10.0 | 25.0 | 14 |

| Choke | Buy | Current (In) [A] | @ ambient temperature [°C] | Inductance (Ln) [mH] | Resistance (R DC) [mOhm] | A [mm] | B [mm] | H [mm] | Weight (g) |
|-------------------|-----|------------------------|----------------------------------|----------------------------|--------------------------------|-----------|-----------|-----------|---------------|
| RN214-2-02-2M2 | | 2.0 | 40 | 2.2 | 67 | 12.5 | 10.0 | 25.0 | 14 |
| RN214-2.5-02-3M3 | | 2.5 | 40 | 3.3 | 72 | 12.5 | 10.0 | 25.0 | 15 |
| RN214-3-02-2M0 | | 3.0 | 40 | 2.0 | 52 | 12.5 | 10.0 | 25.0 | 14 |
| RN214-4-02-1M5 | | 4.0 | 40 | 1.5 | 34 | 12.5 | 10.0 | 25.0 | 15 |
| RN216-0.5-02-47M | | 0.5 | 60 | 47.0 | 960 | 12.5 | 10.0 | 25.0 | 15 |
| RN216-0.5-02-39M | | 0.5 | 60 | 39.0 | 920 | 12.5 | 10.0 | 25.0 | 15 |
| RN216-0.5-02-27M | | 0.5 | 60 | 27.0 | 790 | 12.5 | 10.0 | 25.0 | 15 |
| RN216-0.8-02-27M | | 0.8 | 60 | 27.0 | 370 | 12.5 | 10.0 | 25.0 | 16 |
| RN216-1-02-15M | | 1.0 | 60 | 15.0 | 260 | 12.5 | 10.0 | 25.0 | 16 |
| RN216-1-02-10M | | 1.0 | 60 | 10.0 | 210 | 12.5 | 10.0 | 25.0 | 15 |
| RN216-1.3-02-6M8 | | 1.3 | 60 | 6.8 | 140 | 12.5 | 10.0 | 25.0 | 16 |
| RN216-1.5-02-10M | | 1.5 | 60 | 10.0 | 148 | 12.5 | 10.0 | 25.0 | 16 |
| RN216-1.7-02-4M0 | | 1.7 | 60 | 4.0 | 87 | 12.5 | 10.0 | 25.0 | 16 |
| RN216-2-02-3M3 | | 2.0 | 60 | 3.3 | 70 | 12.5 | 10.0 | 25.0 | 16 |
| RN216-2-02-2M2 | | 2.0 | 60 | 2.2 | 66 | 12.5 | 10.0 | 25.0 | 15 |
| RN218-0.4-02-100M | | 0.4 | 40 | 100 | 2800 | 10.0 | 12.5 | 20.0 | 8 |
| RN218-0.6-02-47M | | 0.6 | 40 | 47.0 | 1200 | 10.0 | 12.5 | 20.0 | 8 |
| RN218-0.7-02-39M | | 0.7 | 40 | 39.0 | 1150 | 10.0 | 12.5 | 20.0 | 8 |
| RN218-0.9-02-27M | | 0.9 | 40 | 27.0 | 620 | 10.0 | 12.5 | 20.0 | 8 |
| RN218-1-02-22M | | 1.0 | 40 | 22.0 | 520 | 10.0 | 12.5 | 20.0 | 8 |
| RN218-1.1-02-15M | | 1.1 | 40 | 15.0 | 420 | 10.0 | 12.5 | 20.0 | 8 |
| RN218-1.4-02-10M | | 1.4 | 40 | 10.0 | 330 | 10.0 | 12.5 | 20.0 | 8 |
| RN218-1.7-02-6M8 | | 1.7 | 40 | 6.8 | 180 | 10.0 | 12.5 | 20.0 | 8 |
| RN218-2.2-02-3M3 | | 2.2 | 40 | 3.3 | 100 | 10.0 | 12.5 | 20.0 | 8 |
| RN222-0.5-02-56M | | 0.5 | 40 | 56.0 | 1800 | 15.0 | 12.5 | 29.3 | 27 |
| RN222-0.6-02-47M | | 0.6 | 40 | 47.0 | 1300 | 15.0 | 12.5 | 29.3 | 26 |
| RN222-0.8-02-39M | | 0.8 | 40 | 39.0 | 1000 | 15.0 | 12.5 | 29.3 | 27 |
| RN222-1-02-33M | | 1.0 | 40 | 33.0 | 1300 | 15.0 | 12.5 | 29.3 | 29 |
| RN222-1-02-18M | | 1.0 | 40 | 18.0 | 630 | 15.0 | 12.5 | 29.3 | 26 |
| RN222-1.5-02-10M | | 1.5 | 40 | 10.0 | 250 | 15.0 | 12.5 | 29.3 | 26 |
| RN222-2-02-6M8 | | 2.0 | 40 | 6.8 | 156 | 15.0 | 12.5 | 29.3 | 28 |
| RN222-2.5-02-5M6 | | 2.5 | 40 | 5.6 | 110 | 15.0 | 12.5 | 29.3 | 27 |
| RN222-3-02-4M5 | | 3.0 | 40 | 4.5 | 80 | 15.0 | 12.5 | 29.3 | 28 |
| RN222-4-02-3M3 | | 4.0 | 40 | 3.3 | 46 | 15.0 | 12.5 | 29.3 | 28 |
| RN232-0.6-02-47M | | 0.6 | 40 | 47.0 | 1300 | 15.0 | 12.5 | 34.3 | 37 |
| RN232-1-02-18M | | 1.0 | 40 | 18.0 | 390 | 15.0 | 12.5 | 34.3 | 38 |
| RN232-1.6-02-10M | | 1.6 | 40 | 10.0 | 170 | 15.0 | 12.5 | 34.3 | 38 |
| RN232-2.5-02-5M6 | | 2.5 | 40 | 5.6 | 86 | 15.0 | 12.5 | 34.3 | 38 |
| RN232-4-02-3M3 | | 4.0 | 40 | 3.3 | 54 | 15.0 | 12.5 | 34.3 | 38 |
| RN242-0.5-02-82M | | 0.5 | 40 | 82.0 | 2700 | 15.0 | 12.5 | 34.3 | 37 |
| RN242-1-02-33M | | 1.0 | 40 | 33.0 | 810 | 15.0 | 12.5 | 34.3 | 38 |
| RN242-1.4-02-27M | | 1.4 | 40 | 27.0 | 500 | 15.0 | 12.5 | 34.3 | 38 |
| RN242-2-02-6M8 | | 2.0 | 40 | 6.8 | 192 | 15.0 | 12.5 | 34.3 | 37 |
| RN242-4-02-3M3 | | 4.0 | 40 | 3.3 | 67 | 15.0 | 12.5 | 34.3 | 38 |
| RN242-6-02-1M8 | | 6.0 | 40 | 1.8 | 20 | 15.0 | 12.5 | 34.3 | 41 |

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.



Distribution Inventory

Up-to-date inventory levels for global distributors is available at

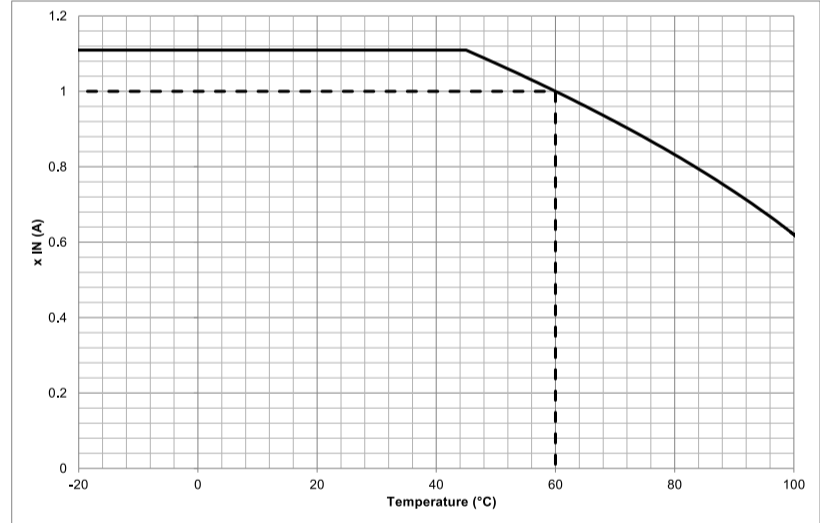
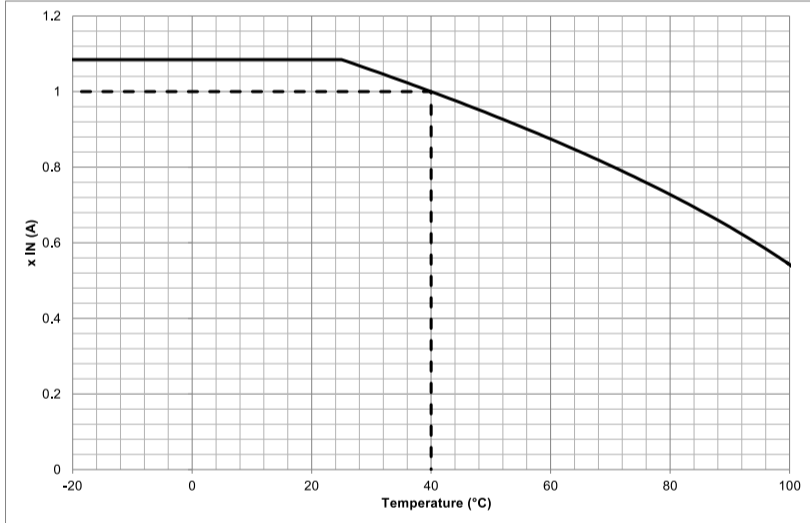
<https://products.schaffner.com/stock>



Thermal Derating

If higher ambient temperatures than the specified apply, the nominal current needs to be reduced according to the graph below.

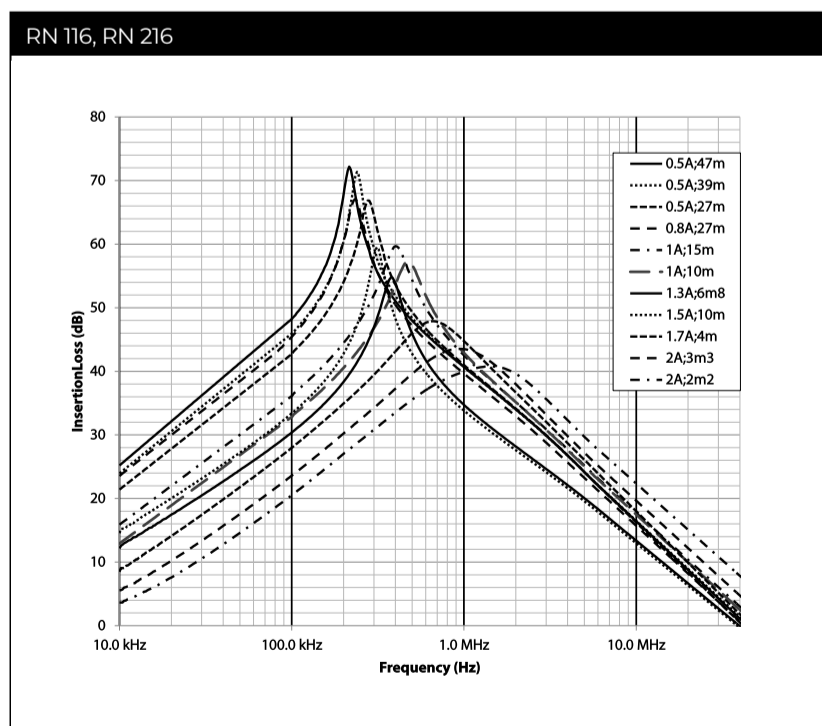
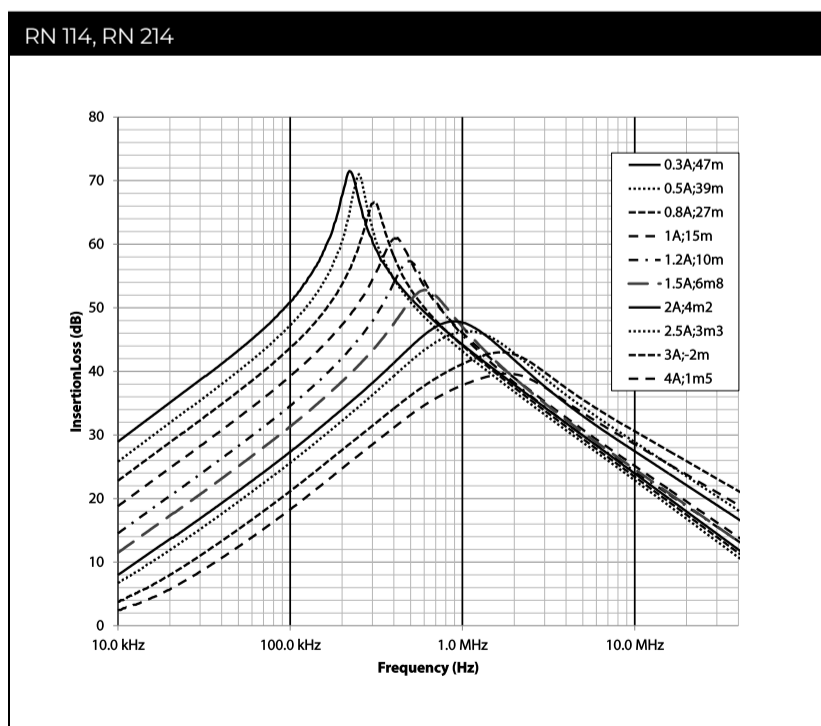
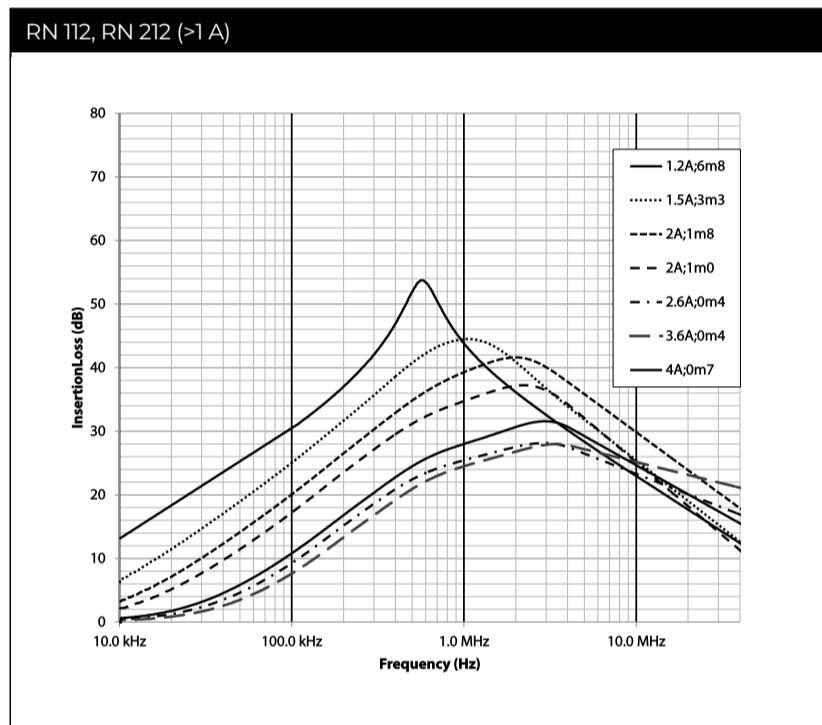
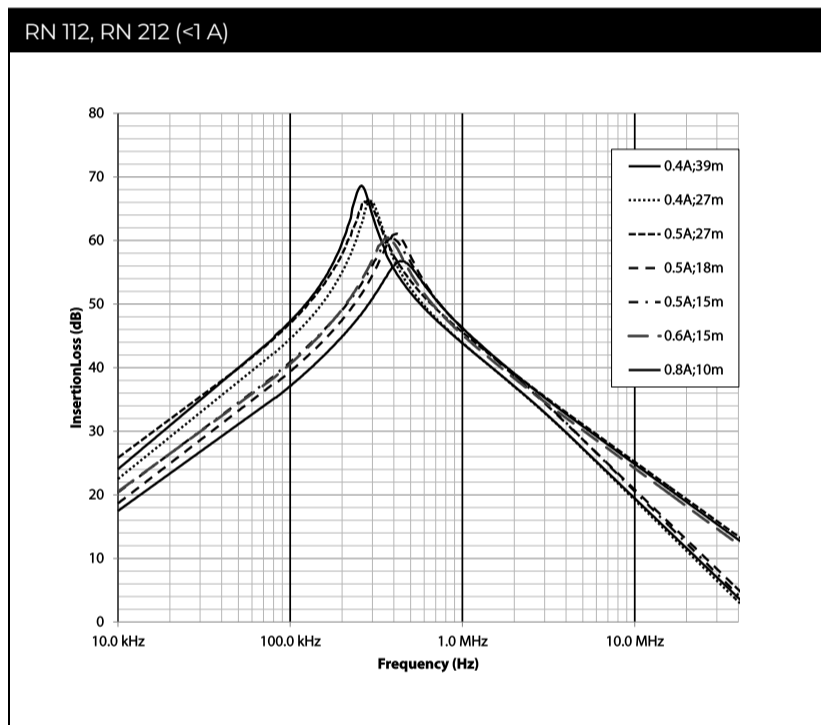
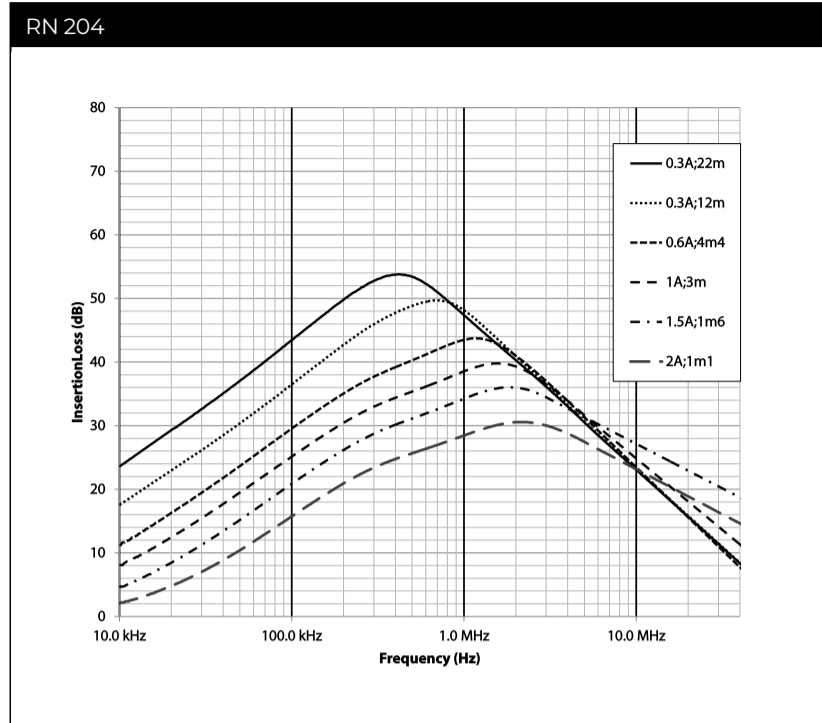
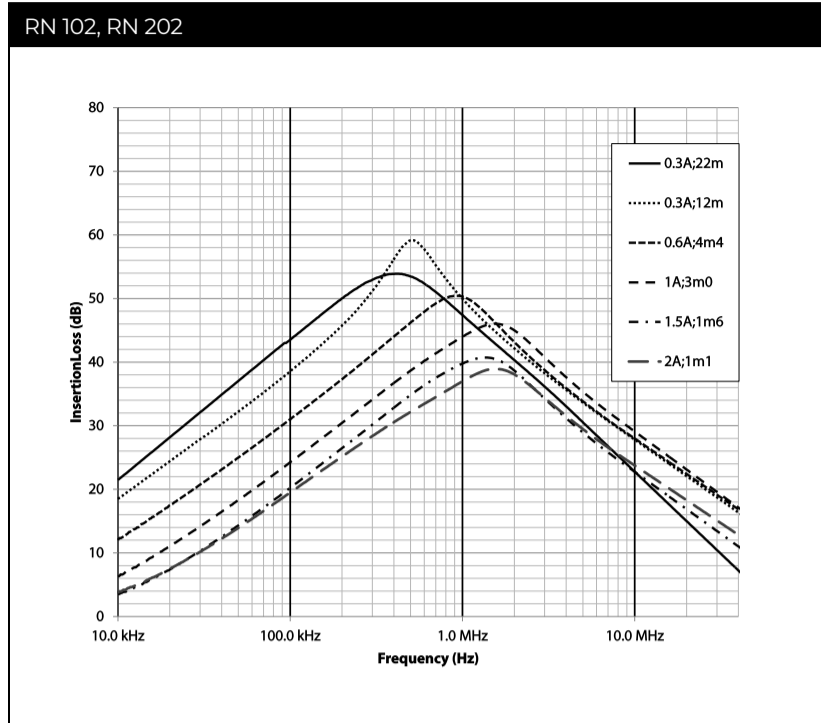
Graph on the left side applies to RN with rated ambient temperature of 40 °C, right side for rated ambient temperature of 60 °C.



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



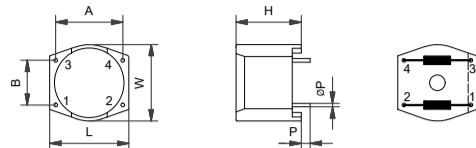


Mechanical Data

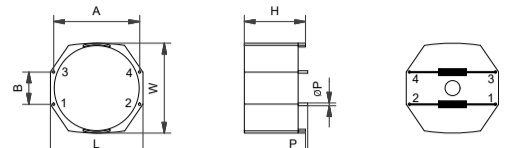
RN 102



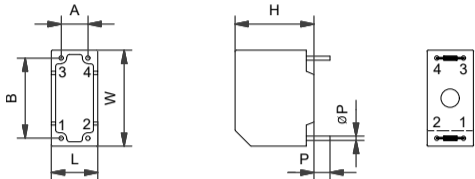
RN 112, RN 114, RN 116, RN 122, RN 142/3



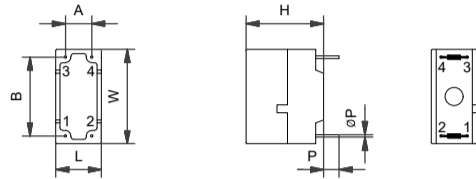
RN 152



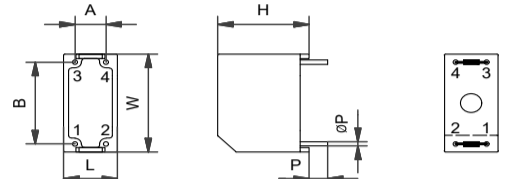
RN 202



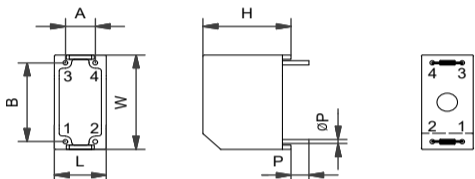
RN 204



RN 212, RN 218



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



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

Dimensions

| | A (±0.6 mm) | B (±0.6 mm) | H (±0.3 mm) | L (±0.3 mm) | W (±0.3 mm) | P (±0.5 mm) | ØP (±0.1 mm) |
|---------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| RN 102 | 10.0 mm | 10.0 mm | 9.0 mm | 14.0 mm | 14.0 mm | 4.0 mm | 0.6 mm |
| RN 112 | 15.0 mm | 10.0 mm | 12.6 mm | 17.7 mm | 17.1 mm | 4.0 mm | 0.8 mm |
| RN 114 | 20.1 mm | 12.5 mm | 13.2 mm | 22.5 mm | 21.5 mm | 4.0 mm | 0.8 mm |
| RN 116 | 20.1 mm | 12.5 mm | 13.2 mm | 22.5 mm | 21.5 mm | 4.0 mm | 0.8 mm |
| RN 122 | 25.0 mm | 15.0 mm | 16.5 mm | 28.0 mm | 27.0 mm | 4.0 mm | 0.8 mm |
| RN 142 | 30.0 mm | 20.0 mm | 19.7 mm | 33.1 mm | 32.5 mm | 4.3 mm | 0.8 mm |
| RN 143 | 30.0 mm | 20.0 mm | 19.7 mm | 33.1 mm | 32.5 mm | 4.3 mm | 0.8 mm |
| RN 152 | 40.0 mm | 15.0 mm | 25.0 mm | 43.0 mm | 41.8 mm | 4.5 mm | 1.2 mm |
| RN 202 | 5.1 mm | 15.2 mm | 13.5 mm | 8.8 mm | 18.2 mm | 4.5 mm | 0.8 mm |
| RN 204 | 7.6 mm | 10.0 mm | 14.3 mm | 9.0 mm | 14.0 mm | 4.0 mm | 0.5 mm |
| RN 212 | 10.0 mm | 15.0 mm | 20.0 mm | 12.5 mm | 18.0 mm | 4.0 mm | 0.8 mm |
| RN 214 | 12.5 mm | 10.0 mm | 25.0 mm | 15.5 mm | 23.0 mm | 4.0 mm | 0.8 mm |
| RN 216 | 12.5 mm | 10.0 mm | 25.0 mm | 15.5 mm | 23.0 mm | 4.0 mm | 0.8 mm |
| RN 218 | 10.0 mm | 12.5 mm | 20.0 mm | 12.5 mm | 18.0 mm | 4.0 mm | 0.8 mm |
| RN 222 | 15.0 mm | 12.5 mm | 29.3 mm | 18.0 mm | 31.0 mm | 4.0 mm | 0.8 mm |
| RN 232 | 15.0 mm | 12.5 mm | 34.3 mm | 18.0 mm | 31.0 mm | 4.2 mm | 0.8 mm |
| RN 242 | 15.0 mm | 12.5 mm | 34.3 mm | 18.0 mm | 31.0 mm | 4.2 mm | 0.8 mm |

Please visit www.schaffner.com to find more details on filter connections.

Headquarters, Global Innovation and Development

Switzerland

Schaffner Group
Industrie Nord
Nordstrasse 11e
4542
Luterbach
+41 32 681 66 26
info@schaffner.com

Sales and Application Centers

Finland

Schaffner Oy
Lohjanharjuntie 1109
08500
Lohja
+ 358 50 468 72 84
finlandsales@schaffner.com

France

Schaffner EMC S.A.S.
16-20 Rue Louis Rameau
95875
Bezons
+33 1 34 34 30 60
francesales@schaffner.com

Germany

Schaffner Deutschland GmbH
Ohiostr. 8
76149
Karlsruhe
+49 721 56910
germanysales@schaffner.com

Italy

Schaffner EMC S.r.l.
Via Ticino, 30
20900
Monza (MB)
+39 039 21 41 070
italysales@schaffner.com

Japan

Schaffner EMC K.K.
ISM Sangenjaya 7F
1-32-12 Kamiyama Setagaya-ku
154-0011
Tokyo
+81 3 5712 3650
japansales@schaffner.com

Singapore

Schaffner EMC Pte Ltd.
Blk 3015A Ubi Road 1 #05-09 Kampong Ubi
Industrial Estate
408705
Singapore
+65 63773283
singaporesales@schaffner.com

Sweden

Schaffner EMC AB
Östermalmströgr 1
114 42
Stockholm
+46 8 5050 2425
swedensales@schaffner.com

Switzerland

Schaffner EMV AG
Industrie Nord
Nordstrasse 11e
4542
Luterbach
+41 32 681 66 26
switzerlandsales@schaffner.com

India

Schaffner India Pvt. Ltd
Regus World Trade Centre
WTC 22nd Floor Unit No 2238 Brigade
Gateway Campus 26/1 Dr. Rajkumar Road
Malleshwaram (W)
560055
Bangalore
+91 8067935355
indiasales@schaffner.com

United Kingdom

Schaffner Ltd.
Suite 1 Oakmede Place
Terrace Road
RG42 4JF
Binfield
+44 118 9770070
uksales@schaffner.com

United States

Schaffner EMC Inc.
52 Mayfield Avenue
Edison, New Jersey
+1 732 225 9533
usasales@schaffner.com

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