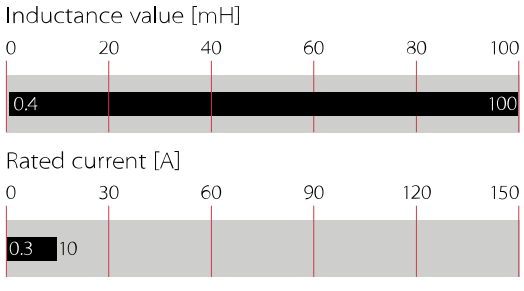
# Current-compensated Chokes

- 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**




**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

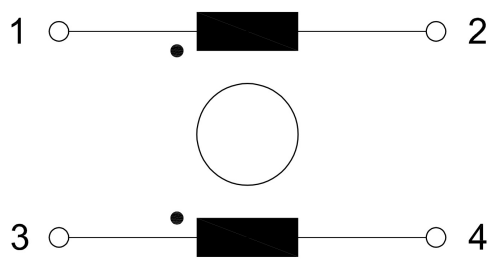
## Technical Specifications

| | |
|---|---|
| **Operating voltage** | 300 VAC |
| **Operating frequency** | DC to 400 Hz |
| **Rated currents** | 0.3 to 10 A<br>0.3 to 10 A @ rated ambient temperature |
| **Rated inductance** | 0.4 to 100 mH |
| **Stray inductance** | Typically 1% of Ln |
| **Inductance reduction (DC bias with IN)** | 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)<br>acc. IEC 60068-1 |
| **Flammability corresponding to** | Housing UL 94V-0<br>Potting compound UL 94V-0<br>Ringcore coating UL 94V-0 |
| **Design corresponding to** | UL 1283, IEC/EN 60938-1 |

## 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 ($I_N$) [A] | @ ambient temperature [°C] | Inductance ($L_N$) [mH] | Resistance ($R_{DC}$) [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 ($I_N$) [A] | @ ambient temperature [°C] | Inductance ($L_N$) [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 ($I_N$) [A] | @ ambient temperature [°C] | Inductance ($L_N$) [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.

## Product selector

RN XYY-II-02-LML

- Rated Inductivity $L_N$ (mH)
- Terminal-Type (–02 Rigid Pin Connection)
- Rated Current $I_N$ (A)
- Size (02 to 52)
- Orientation (1 = horizontal; 2 = vertical)
- Familyname

## Distribution Inventory

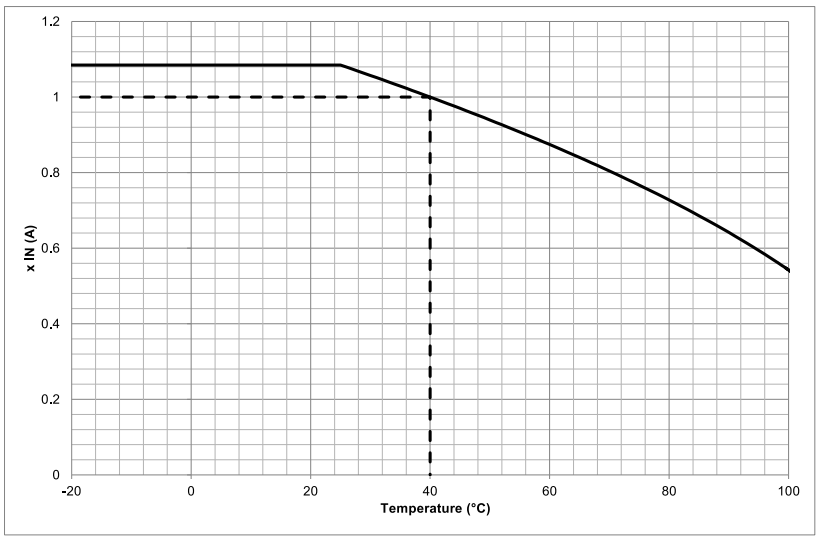
Up-to-date inventory levels for global distributors is available at

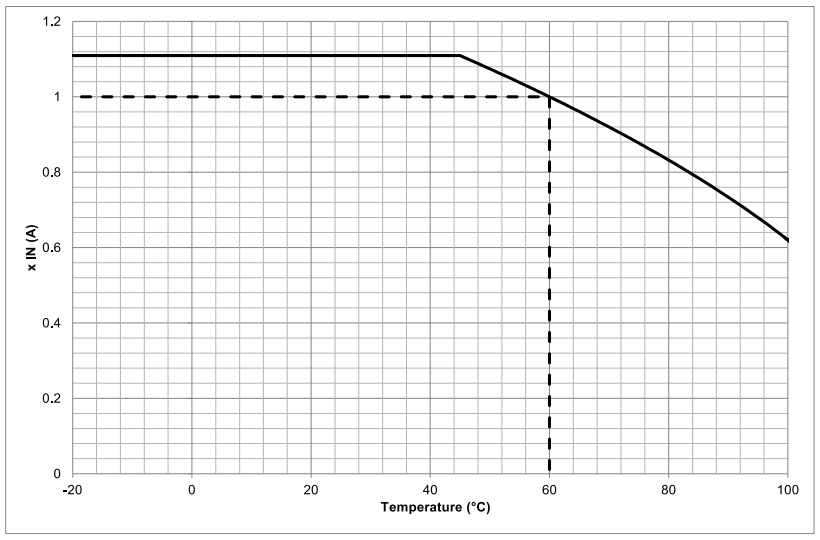
https://products.schaffner.com/stock

## 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.

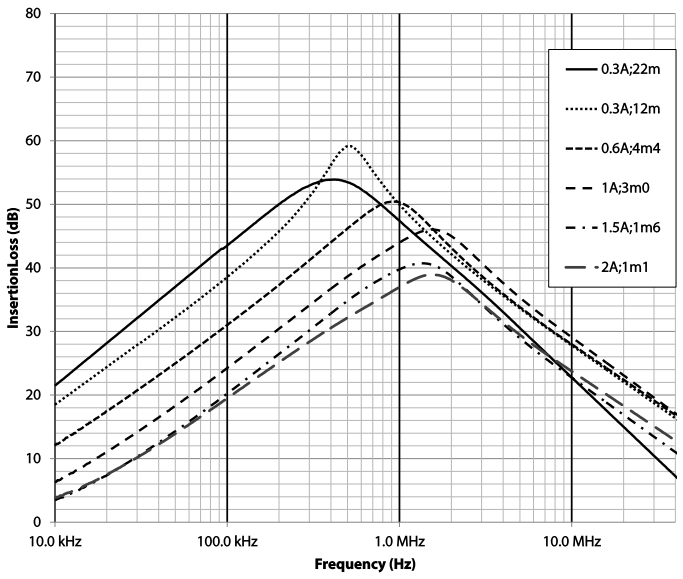


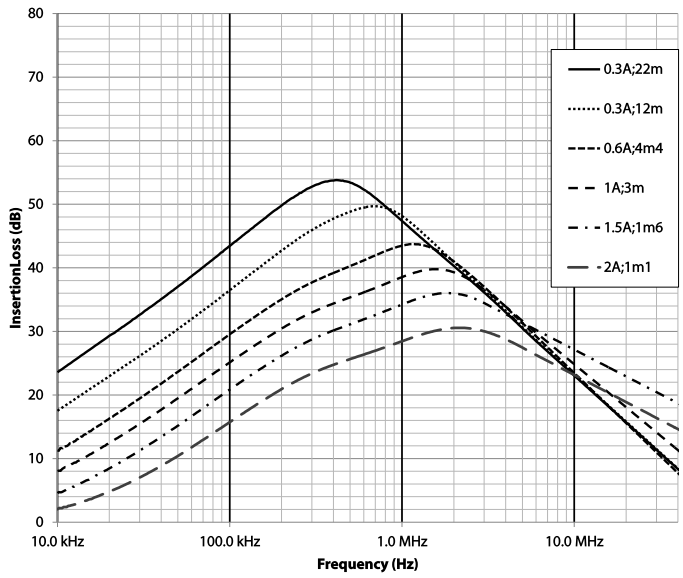
## Typical Attenuation/Resonance Frequency Characteristics

Per CISPR 17; 50 Ω/50 Ω asym
X can be exchanged with either 1 or 2 for different housing configuration, attenuation is similar

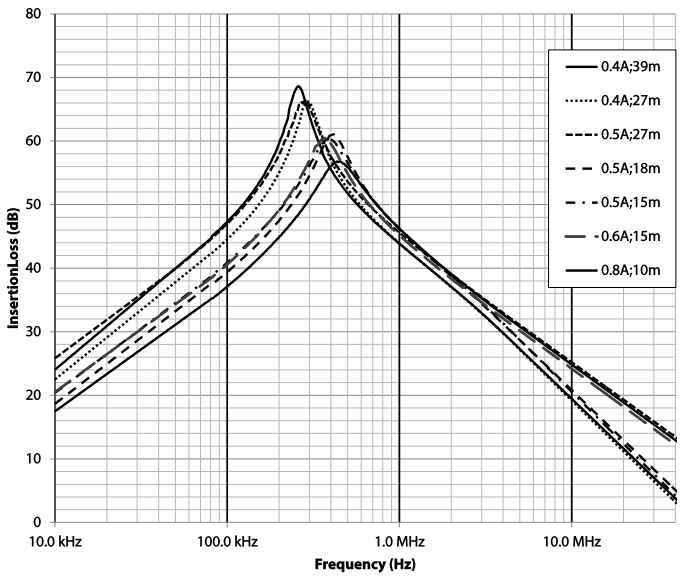
### RN 102, RN 202



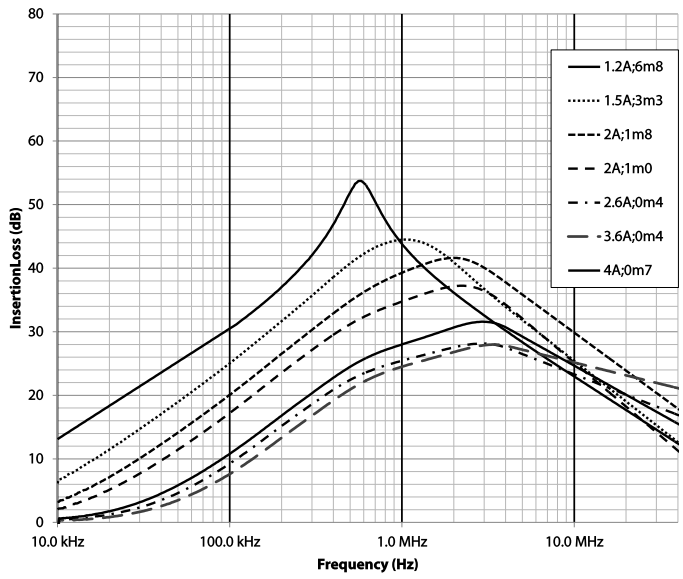

### RN 204



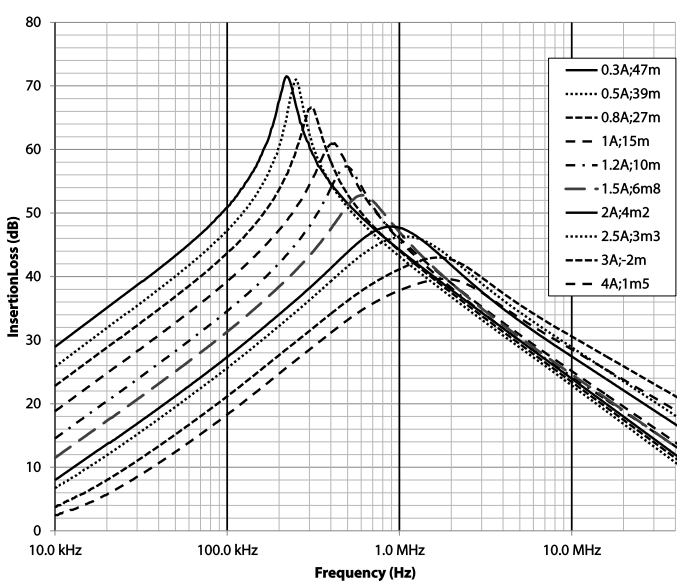

### RN 112, RN 212 (<1 A)



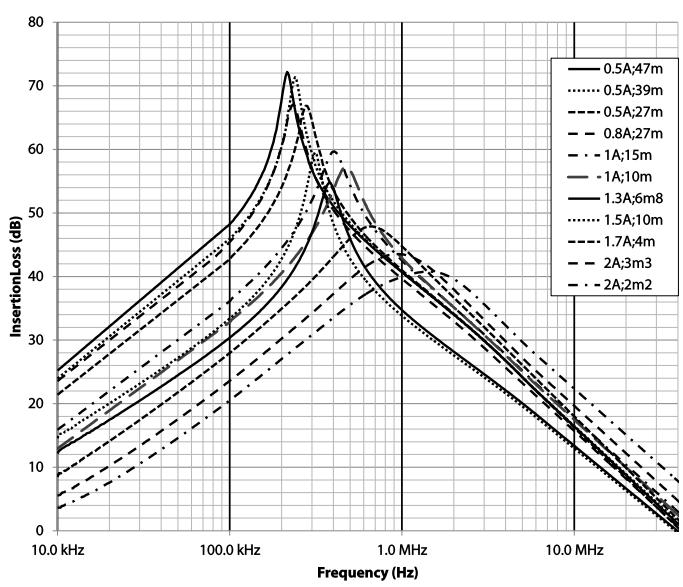

### RN 112, RN 212 (>1 A)



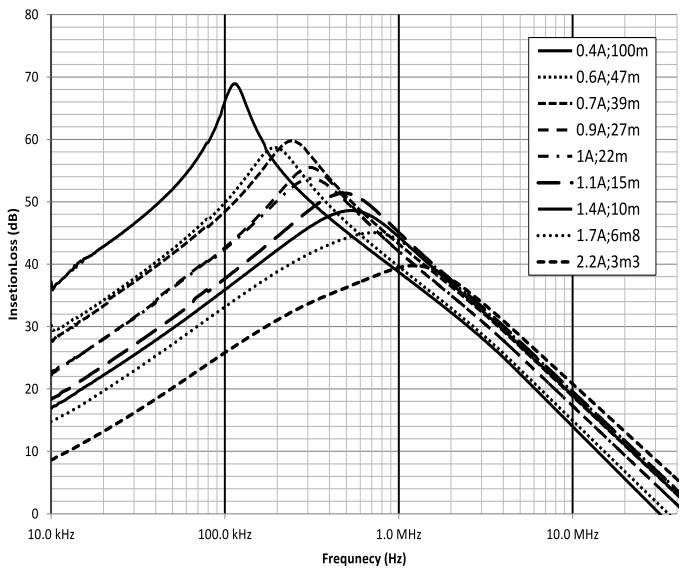

### RN 114, RN 214



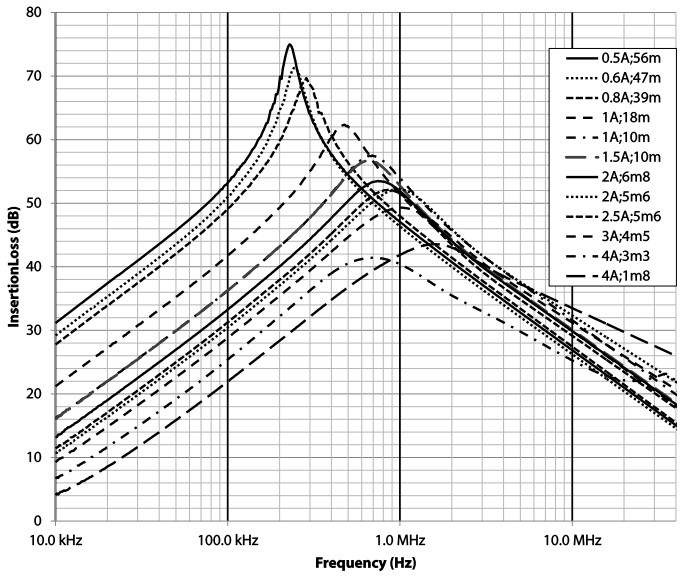

### RN 116, RN 216



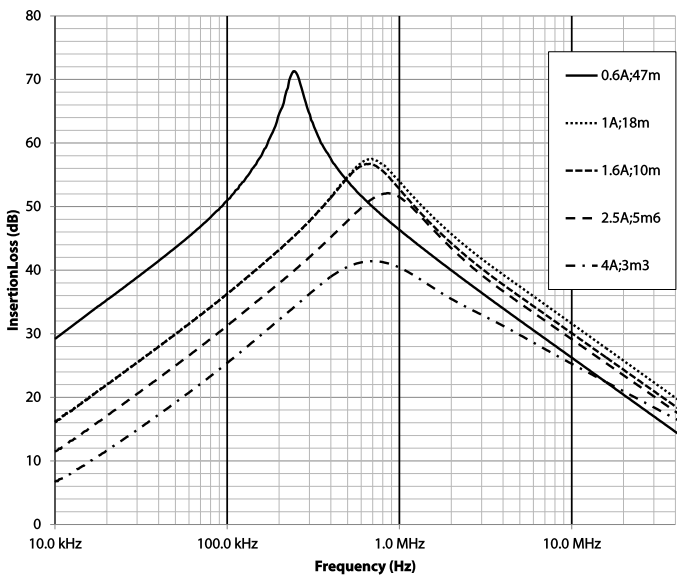
## RN 218



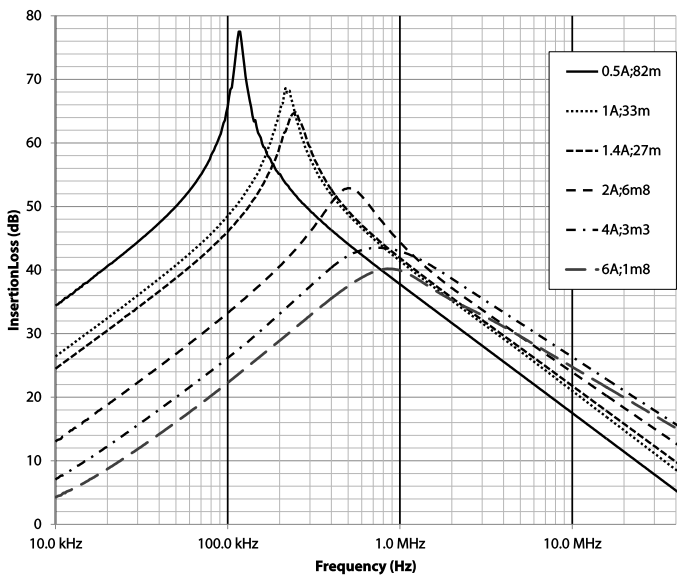

## RN 122, RN 222



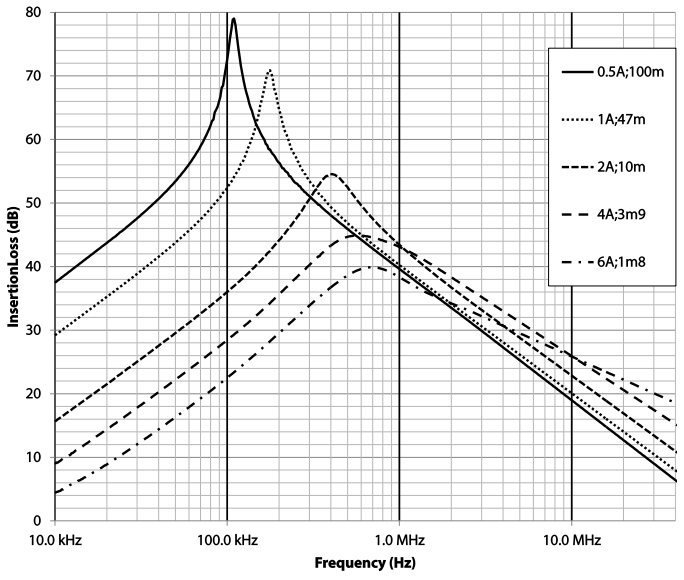

## RN 232



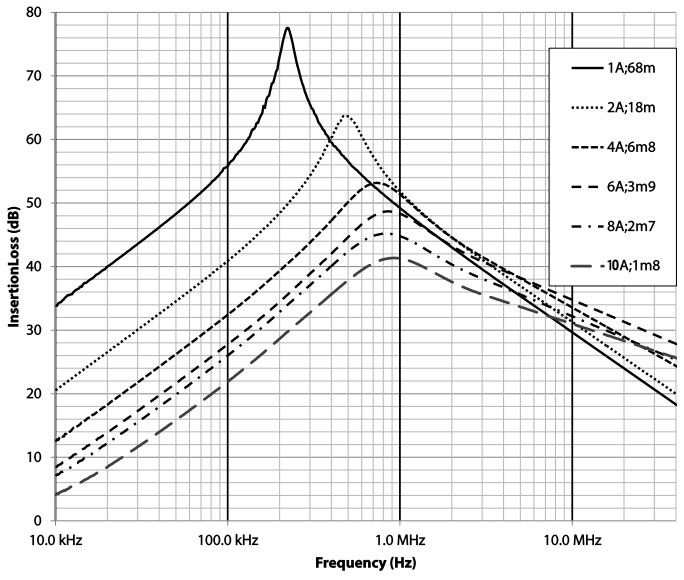

## RN 142, RN 242




## RN 143

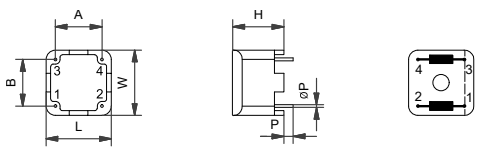



## RN 152

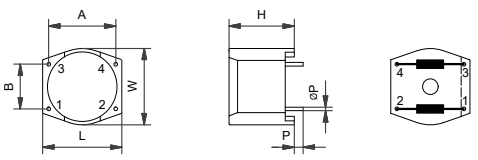


## Mechanical Data

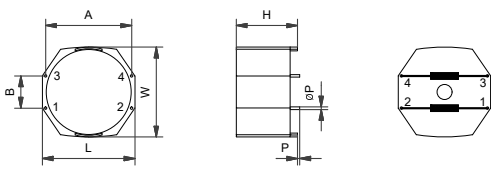
RN 102



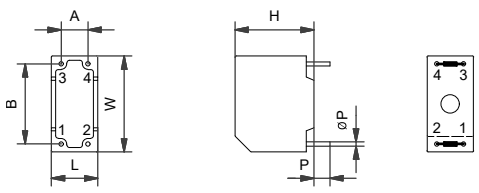

RN 112, RN 114, RN 116, RN 122, RN 142/3



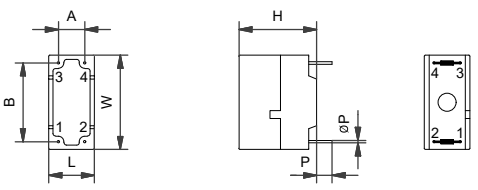

RN 152



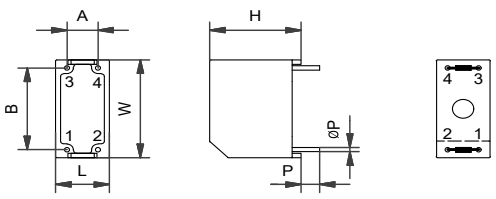

RN 202



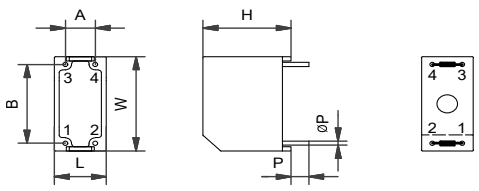

RN 204




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 |

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