

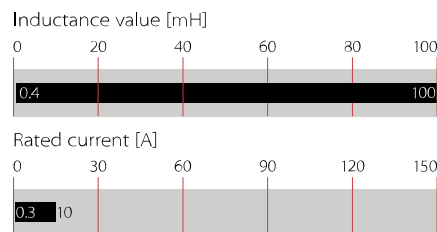
## Current-compensated Chokes



- 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

|                                                       |                                                                            |
|-------------------------------------------------------|----------------------------------------------------------------------------|
| Operating voltage                                     | 300 VAC                                                                    |
| Operating frequency                                   | DC to 400 Hz                                                               |
| Rated currents                                        | 0.3 to 10 A @ rated ambient temperature                                    |
| Rated inductance                                      | 0.4 to 100 mH                                                              |
| Stray inductance                                      | Typically 1% of $L_N$                                                      |
| 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<br>1500 VAC, 2 sec, factory test              |
| winding-to-housing @ 25°C                             | 4000 VAC, 60 sec, guaranteed                                               |
| MTBF @ 40°C/230 V (Mil-HB-217F)                       | >5,000,000 hours                                                           |
| Surge current @ 10 msec                               | 20 x $I_N$ @ 25°C                                                          |
| Temperature range (operation and storage)             | -40°C to 100°C (40/100/56)<br>acc. IEC 60068-1                             |
| Flammability corresponding to                         | Potting compound UL 94V-0<br>Housing UL 94V-0<br>Ringcore coating UL 94V-0 |
| Design corresponding to                               | UL 1283, IEC/EN 60938-1                                                    |

### 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.

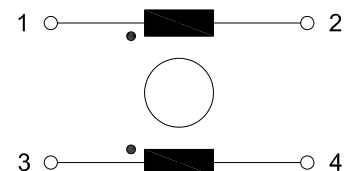
### Features and benefits

- 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             | Current<br>(I <sub>N</sub> )<br>[A] | @ ambient<br>temperature<br>[°C] | Inductance<br>(L <sub>N</sub> )<br>[mH] | Resistance<br>(R <sub>DC</sub> )<br>[mOhm] | A<br>[mm] | B<br>[mm] | H<br>[mm] | Weight<br>(g) |                     |
|-------------------|-------------------------------------|----------------------------------|-----------------------------------------|--------------------------------------------|-----------|-----------|-----------|---------------|---------------------|
| RN 102-0.3-02-22M | 0.3                                 | 40                               | 22.0                                    | 1300                                       | 10.0      | 10.0      | 9.0       | 4             | <a href="#">buy</a> |
| RN 102-0.3-02-12M | 0.3                                 | 40                               | 12.0                                    | 1100                                       | 10.0      | 10.0      | 9.0       | 3             | <a href="#">buy</a> |
| RN 102-0.6-02-4M4 | 0.6                                 | 40                               | 4.4                                     | 380                                        | 10.0      | 10.0      | 9.0       | 3             |                     |
| RN 102-1-02-3M0   | 1.0                                 | 40                               | 3.0                                     | 210                                        | 10.0      | 10.0      | 9.0       | 3             |                     |
| RN 102-1.5-02-1M6 | 1.5                                 | 40                               | 1.6                                     | 94                                         | 10.0      | 10.0      | 9.0       | 3             |                     |
| RN 102-2-02-1M1   | 2.0                                 | 40                               | 1.1                                     | 70                                         | 10.0      | 10.0      | 9.0       | 3             |                     |
|                   |                                     |                                  |                                         |                                            |           |           |           |               |                     |
| RN 112-0.4-02-39M | 0.4                                 | 40                               | 39.0                                    | 1500                                       | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-0.4-02-27M | 0.4                                 | 40                               | 27.0                                    | 1400                                       | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-0.5-02-27M | 0.5                                 | 40                               | 27.0                                    | 1200                                       | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-0.5-02-18M | 0.5                                 | 40                               | 18.0                                    | 1100                                       | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-0.5-02-15M | 0.5                                 | 40                               | 15.0                                    | 700                                        | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-0.6-02-15M | 0.6                                 | 40                               | 15.0                                    | 490                                        | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-0.8-02-10M | 0.8                                 | 40                               | 10.0                                    | 380                                        | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-1.2-02-6M8 | 1.2                                 | 40                               | 6.8                                     | 250                                        | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-1.5-02-3M3 | 1.5                                 | 40                               | 3.3                                     | 102                                        | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-2-02-1M8   | 2.0                                 | 40                               | 1.8                                     | 74                                         | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-2-02-1M0   | 2.0                                 | 40                               | 1.0                                     | 70                                         | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-2.6-02-0M4 | 2.6                                 | 40                               | 0.4                                     | 40                                         | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-3.6-02-0M4 | 3.6                                 | 40                               | 0.4                                     | 27                                         | 15.0      | 10.0      | 12.6      | 6             |                     |
| RN 112-4-02-0M7   | 4.0                                 | 40                               | 0.7                                     | 24                                         | 15.0      | 10.0      | 12.6      | 6             |                     |
|                   |                                     |                                  |                                         |                                            |           |           |           |               |                     |
| RN 114-0.3-02-47M | 0.3                                 | 40                               | 47.0                                    | 1700                                       | 20.1      | 12.5      | 13.2      | 10            |                     |
| RN 114-0.5-02-39M | 0.5                                 | 40                               | 39.0                                    | 830                                        | 20.1      | 12.5      | 13.2      | 11            |                     |
| RN 114-0.8-02-27M | 0.8                                 | 40                               | 27.0                                    | 500                                        | 20.1      | 12.5      | 13.2      | 11            |                     |
| RN 114-1-02-15M   | 1.0                                 | 40                               | 15.0                                    | 370                                        | 20.1      | 12.5      | 13.2      | 10            |                     |
| RN 114-1.2-02-10M | 1.2                                 | 40                               | 10.0                                    | 195                                        | 20.1      | 12.5      | 13.2      | 10            |                     |
| RN 114-1.5-02-6M8 | 1.5                                 | 40                               | 6.8                                     | 123                                        | 20.1      | 12.5      | 13.2      | 11            |                     |
| RN 114-2-02-4M2   | 2.0                                 | 40                               | 4.2                                     | 100                                        | 20.1      | 12.5      | 13.2      | 11            |                     |
| RN 114-2.5-02-3M3 | 2.5                                 | 40                               | 3.3                                     | 72                                         | 20.1      | 12.5      | 13.2      | 11            |                     |
| RN 114-3-02-2M0   | 3.0                                 | 40                               | 2.0                                     | 52                                         | 20.1      | 12.5      | 13.2      | 10            |                     |
| RN 114-4-02-1M5   | 4.0                                 | 40                               | 1.5                                     | 34                                         | 20.1      | 12.5      | 13.2      | 11            |                     |
|                   |                                     |                                  |                                         |                                            |           |           |           |               |                     |
| RN 116-0.5-02-47M | 0.5                                 | 60                               | 47.0                                    | 960                                        | 20.1      | 12.5      | 13.2      | 11            |                     |
| RN 116-0.5-02-39M | 0.5                                 | 60                               | 39.0                                    | 920                                        | 20.1      | 12.5      | 13.2      | 11            |                     |
| RN 116-0.5-02-27M | 0.5                                 | 60                               | 27.0                                    | 790                                        | 20.1      | 12.5      | 13.2      | 11            |                     |
| RN 116-0.8-02-27M | 0.8                                 | 60                               | 27.0                                    | 370                                        | 20.1      | 12.5      | 13.2      | 13            |                     |
| RN 116-1-02-15M   | 1.0                                 | 60                               | 15.0                                    | 260                                        | 20.1      | 12.5      | 13.2      | 12            |                     |
| RN 116-1-02-10M   | 1.0                                 | 60                               | 10.0                                    | 210                                        | 20.1      | 12.5      | 13.2      | 11            |                     |
| RN 116-1.3-02-6M8 | 1.3                                 | 60                               | 6.8                                     | 140                                        | 20.1      | 12.5      | 13.2      | 12            |                     |
| RN 116-1.5-02-10M | 1.5                                 | 60                               | 10.0                                    | 148                                        | 20.1      | 12.5      | 13.2      | 12            |                     |
| RN 116-1.7-02-4M0 | 1.7                                 | 60                               | 4.0                                     | 87                                         | 20.1      | 12.5      | 13.2      | 12            |                     |
| RN 116-2-02-3M3   | 2.0                                 | 60                               | 3.3                                     | 70                                         | 20.1      | 12.5      | 13.2      | 12            |                     |
| RN 116-2-02-2M2   | 2.0                                 | 60                               | 2.2                                     | 66                                         | 20.1      | 12.5      | 13.2      | 11            |                     |
|                   |                                     |                                  |                                         |                                            |           |           |           |               |                     |
| RN 122-0.5-02-56M | 0.5                                 | 40                               | 56.0                                    | 1800                                       | 25.0      | 15.0      | 16.5      | 20            |                     |
| RN 122-0.6-02-47M | 0.6                                 | 40                               | 47.0                                    | 1300                                       | 25.0      | 15.0      | 16.5      | 20            |                     |
| RN 122-0.8-02-39M | 0.8                                 | 40                               | 39.0                                    | 1000                                       | 25.0      | 15.0      | 16.5      | 20            |                     |
| RN 122-1-02-18M   | 1.0                                 | 40                               | 18.0                                    | 630                                        | 25.0      | 15.0      | 16.5      | 19            |                     |
| RN 122-1-02-10M   | 1.0                                 | 40                               | 10.0                                    | 560                                        | 25.0      | 15.0      | 16.5      | 19            |                     |
| RN 122-1.5-02-10M | 1.5                                 | 40                               | 10.0                                    | 250                                        | 25.0      | 15.0      | 16.5      | 20            |                     |
| RN 122-2-02-6M8   | 2.0                                 | 40                               | 6.8                                     | 156                                        | 25.0      | 15.0      | 16.5      | 20            |                     |
| RN 122-2-02-5M0   | 2.0                                 | 40                               | 5.0                                     | 140                                        | 25.0      | 15.0      | 16.5      | 21            |                     |
| RN 122-2.5-02-5M6 | 2.5                                 | 40                               | 5.6                                     | 110                                        | 25.0      | 15.0      | 16.5      | 20            |                     |
| RN 122-3-02-4M5   | 3.0                                 | 40                               | 4.5                                     | 80                                         | 25.0      | 15.0      | 16.5      | 21            |                     |
| RN 122-4-02-3M3   | 4.0                                 | 40                               | 3.3                                     | 46                                         | 25.0      | 15.0      | 16.5      | 22            |                     |
| RN 122-4-02-1M8   | 4.0                                 | 40                               | 1.8                                     | 42                                         | 25.0      | 15.0      | 16.5      | 22            |                     |

| Choke              | Current<br>(I <sub>N</sub> )<br>[A] | @ ambient<br>temperature<br>[°C] | Inductance<br>(L <sub>N</sub> )<br>[mH] | Resistance<br>(R <sub>Dc</sub> )<br>[mOhm] | A<br>[mm] | B<br>[mm] | H<br>[mm] | Weight<br>(g) |
|--------------------|-------------------------------------|----------------------------------|-----------------------------------------|--------------------------------------------|-----------|-----------|-----------|---------------|
| RN 142-0.5-02-82M  | 0.5                                 | 40                               | 82.0                                    | 2700                                       | 30.0      | 20.0      | 19.7      | 36            |
| RN 142-1-02-33M    | 1.0                                 | 40                               | 33.0                                    | 810                                        | 30.0      | 20.0      | 19.7      | 37            |
| RN 142-1.4-02-27M  | 1.4                                 | 40                               | 27.0                                    | 500                                        | 30.0      | 20.0      | 19.7      | 40            |
| RN 142-2-02-6M8    | 2.0                                 | 40                               | 6.8                                     | 192                                        | 30.0      | 20.0      | 19.7      | 36            |
| RN 142-4-02-3M3    | 4.0                                 | 40                               | 3.3                                     | 67                                         | 30.0      | 20.0      | 19.7      | 38            |
| RN 142-6-02-1M8    | 6.0                                 | 40                               | 1.8                                     | 20                                         | 30.0      | 20.0      | 19.7      | 40            |
| RN 143-0.5-02-100M | 0.5                                 | 40                               | 100.0                                   | 2900                                       | 30.0      | 20.0      | 19.7      | 36            |
| RN 143-1-02-47M    | 1.0                                 | 40                               | 47.0                                    | 890                                        | 30.0      | 20.0      | 19.7      | 38            |
| RN 143-2-02-10M    | 2.0                                 | 40                               | 10.0                                    | 240                                        | 30.0      | 20.0      | 19.7      | 42            |
| RN 143-4-02-3M9    | 4.0                                 | 40                               | 3.9                                     | 59                                         | 30.0      | 20.0      | 19.7      | 39            |
| RN 143-6-02-1M8    | 6.0                                 | 40                               | 1.8                                     | 20                                         | 30.0      | 20.0      | 19.7      | 42            |
| RN 152-1-02-68M    | 1.0                                 | 40                               | 68.0                                    | 1300                                       | 40.0      | 15.0      | 25.0      | 75            |
| RN 152-2-02-18M    | 2.0                                 | 40                               | 18.0                                    | 350                                        | 40.0      | 15.0      | 25.0      | 64            |
| RN 152-4-02-6M8    | 4.0                                 | 40                               | 6.8                                     | 87                                         | 40.0      | 15.0      | 25.0      | 74            |
| RN 152-6-02-3M9    | 6.0                                 | 40                               | 3.9                                     | 42                                         | 40.0      | 15.0      | 25.0      | 68            |
| RN 152-8-02-2M7    | 8.0                                 | 40                               | 2.7                                     | 22                                         | 40.0      | 15.0      | 25.0      | 73            |
| RN 152-10-02-1M8   | 10.0                                | 40                               | 1.8                                     | 14                                         | 40.0      | 15.0      | 25.0      | 73            |
| RN 202-0.3-02-22M  | 0.3                                 | 40                               | 22.0                                    | 1300                                       | 5.1       | 15.2      | 13.5      | 4             |
| RN 202-0.3-02-12M  | 0.3                                 | 40                               | 12.0                                    | 1100                                       | 5.1       | 15.2      | 13.5      | 4             |
| RN 202-0.6-02-4M4  | 0.6                                 | 40                               | 4.4                                     | 380                                        | 5.1       | 15.2      | 13.5      | 4             |
| RN 202-1-02-3M0    | 1.0                                 | 40                               | 3.0                                     | 210                                        | 5.1       | 15.2      | 13.5      | 4             |
| RN 202-1.5-02-1M6  | 1.5                                 | 40                               | 1.6                                     | 94                                         | 5.1       | 15.2      | 13.5      | 4             |
| RN 202-2-02-1M1    | 2.0                                 | 40                               | 1.1                                     | 70                                         | 5.1       | 15.2      | 13.5      | 4             |
| RN 204-0.3-02-22M  | 0.3                                 | 40                               | 22.0                                    | 1300                                       | 7.6       | 10.0      | 14.3      | 3             |
| RN 204-0.3-02-12M  | 0.3                                 | 40                               | 12.0                                    | 960                                        | 7.6       | 10.0      | 14.3      | 3             |
| RN 204-0.6-02-4M4  | 0.6                                 | 40                               | 4.4                                     | 350                                        | 7.6       | 10.0      | 14.3      | 3             |
| RN 204-1-02-3M0    | 1.0                                 | 40                               | 3.0                                     | 192                                        | 7.6       | 10.0      | 14.3      | 3             |
| RN 204-1.5-02-1M6  | 1.5                                 | 40                               | 1.6                                     | 96                                         | 7.6       | 10.0      | 14.3      | 3             |
| RN 204-2-02-1M1    | 2.0                                 | 40                               | 1.1                                     | 57                                         | 7.6       | 10.0      | 14.3      | 3             |
| RN 212-0.4-02-39M  | 0.4                                 | 40                               | 39.0                                    | 1500                                       | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-0.4-02-27M  | 0.4                                 | 40                               | 27.0                                    | 1400                                       | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-0.5-02-27M  | 0.5                                 | 40                               | 27.0                                    | 1200                                       | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-0.5-02-18M  | 0.5                                 | 40                               | 18.0                                    | 1100                                       | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-0.5-02-15M  | 0.5                                 | 40                               | 15.0                                    | 700                                        | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-0.6-02-15M  | 0.6                                 | 40                               | 15.0                                    | 490                                        | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-0.8-02-10M  | 0.8                                 | 40                               | 10.0                                    | 380                                        | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-1.2-02-6M8  | 1.2                                 | 40                               | 6.8                                     | 250                                        | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-1.5-02-3M3  | 1.5                                 | 40                               | 3.3                                     | 102                                        | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-2-02-1M8    | 2.0                                 | 40                               | 1.8                                     | 74                                         | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-2-02-1M0    | 2.0                                 | 40                               | 1.0                                     | 70                                         | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-2.6-02-0M4  | 2.6                                 | 40                               | 0.4                                     | 40                                         | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-3.6-02-0M4  | 3.6                                 | 40                               | 0.4                                     | 27                                         | 10.0      | 15.0      | 20.0      | 8             |
| RN 212-4-02-0M7    | 4.0                                 | 40                               | 0.7                                     | 24                                         | 10.0      | 15.0      | 20.0      | 8             |
| RN 214-0.3-02-47M  | 0.3                                 | 40                               | 47.0                                    | 1700                                       | 12.5      | 10.0      | 25.0      | 14            |
| RN 214-0.5-02-56M  | 0.5                                 | 40                               | 56.0                                    | 1700                                       | 12.5      | 10.0      | 25.0      | 15            |
| RN 214-0.5-02-39M  | 0.5                                 | 40                               | 39.0                                    | 830                                        | 12.5      | 10.0      | 25.0      | 14            |
| RN 214-0.8-02-27M  | 0.8                                 | 40                               | 27.0                                    | 500                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN 214-1-02-15M    | 1.0                                 | 40                               | 15.0                                    | 370                                        | 12.5      | 10.0      | 25.0      | 14            |
| RN 214-1.2-02-10M  | 1.2                                 | 40                               | 10.0                                    | 195                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN 214-1.5-02-6M8  | 1.5                                 | 40                               | 6.8                                     | 123                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN 214-2-02-4M2    | 2.0                                 | 40                               | 4.2                                     | 100                                        | 12.5      | 10.0      | 25.0      | 14            |

| Choke              | Current<br>(I <sub>N</sub> )<br>[A] | @ ambient<br>temperature<br>[°C] | Inductance<br>(L <sub>N</sub> )<br>[mH] | Resistance<br>(R <sub>DC</sub> )<br>[mOhm] | A<br>[mm] | B<br>[mm] | H<br>[mm] | Weight<br>(g) |
|--------------------|-------------------------------------|----------------------------------|-----------------------------------------|--------------------------------------------|-----------|-----------|-----------|---------------|
| RN 214-2-02-2M2    | 2.0                                 | 40                               | 2.2                                     | 67                                         | 12.5      | 10.0      | 25.0      | 14            |
| RN 214-2.5-02-3M3  | 2.5                                 | 40                               | 3.3                                     | 72                                         | 12.5      | 10.0      | 25.0      | 15            |
| RN 214-3-02-2M0    | 3.0                                 | 40                               | 2.0                                     | 52                                         | 12.5      | 10.0      | 25.0      | 14            |
| RN 214-4-02-1M5    | 4.0                                 | 40                               | 1.5                                     | 34                                         | 12.5      | 10.0      | 25.0      | 15            |
| RN 216-0.5-02-47M  | 0.5                                 | 60                               | 47.0                                    | 960                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN 216-0.5-02-39M  | 0.5                                 | 60                               | 39.0                                    | 920                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN 216-0.5-02-27M  | 0.5                                 | 60                               | 27.0                                    | 790                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN 216-0.8-02-27M  | 0.8                                 | 60                               | 27.0                                    | 370                                        | 12.5      | 10.0      | 25.0      | 16            |
| RN 216-1-02-15M    | 1.0                                 | 60                               | 15.0                                    | 260                                        | 12.5      | 10.0      | 25.0      | 16            |
| RN 216-1-02-10M    | 1.0                                 | 60                               | 10.0                                    | 210                                        | 12.5      | 10.0      | 25.0      | 15            |
| RN 216-1.3-02-6M8  | 1.3                                 | 60                               | 6.8                                     | 140                                        | 12.5      | 10.0      | 25.0      | 16            |
| RN 216-1.5-02-10M  | 1.5                                 | 60                               | 10.0                                    | 148                                        | 12.5      | 10.0      | 25.0      | 16            |
| RN 216-1.7-02-4M0  | 1.7                                 | 60                               | 4.0                                     | 87                                         | 12.5      | 10.0      | 25.0      | 16            |
| RN 216-2-02-3M3    | 2.0                                 | 60                               | 3.3                                     | 70                                         | 12.5      | 10.0      | 25.0      | 16            |
| RN 216-2-02-2M2    | 2.0                                 | 60                               | 2.2                                     | 66                                         | 12.5      | 10.0      | 25.0      | 15            |
| RN 218-0.4-02-100M | 0.4                                 | 40                               | 100                                     | 2800                                       | 10.0      | 12.5      | 20.0      | 8             |
| RN 218-0.6-02-47M  | 0.6                                 | 40                               | 47.0                                    | 1200                                       | 10.0      | 12.5      | 20.0      | 8             |
| RN 218-0.7-02-39M  | 0.7                                 | 40                               | 39.0                                    | 1150                                       | 10.0      | 12.5      | 20.0      | 8             |
| RN 218-0.9-02-27M  | 0.9                                 | 40                               | 27.0                                    | 620                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN 218-1-02-22M    | 1.0                                 | 40                               | 22.0                                    | 520                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN 218-1.1-02-15M  | 1.1                                 | 40                               | 15.0                                    | 420                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN 218-1.4-02-10M  | 1.4                                 | 40                               | 10.0                                    | 330                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN 218-1.7-02-6M8  | 1.7                                 | 40                               | 6.8                                     | 180                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN 218-2.2-02-3M3  | 2.2                                 | 40                               | 3.3                                     | 100                                        | 10.0      | 12.5      | 20.0      | 8             |
| RN 222-0.5-02-56M  | 0.5                                 | 40                               | 56.0                                    | 1800                                       | 15.0      | 12.5      | 29.3      | 27            |
| RN 222-0.6-02-47M  | 0.6                                 | 40                               | 47.0                                    | 1300                                       | 15.0      | 12.5      | 29.3      | 26            |
| RN 222-0.8-02-39M  | 0.8                                 | 40                               | 39.0                                    | 1000                                       | 15.0      | 12.5      | 29.3      | 27            |
| RN 222-1-02-33M    | 1.0                                 | 40                               | 33.0                                    | 1300                                       | 15.0      | 12.5      | 29.3      | 29            |
| RN 222-1-02-18M    | 1.0                                 | 40                               | 18.0                                    | 630                                        | 15.0      | 12.5      | 29.3      | 26            |
| RN 222-1.5-02-10M  | 1.5                                 | 40                               | 10.0                                    | 250                                        | 15.0      | 12.5      | 29.3      | 26            |
| RN 222-2-02-6M8    | 2.0                                 | 40                               | 6.8                                     | 156                                        | 15.0      | 12.5      | 29.3      | 28            |
| RN 222-2.5-02-5M6  | 2.5                                 | 40                               | 5.6                                     | 110                                        | 15.0      | 12.5      | 29.3      | 27            |
| RN 222-3-02-4M5    | 3.0                                 | 40                               | 4.5                                     | 80                                         | 15.0      | 12.5      | 29.3      | 28            |
| RN 222-4-02-3M3    | 4.0                                 | 40                               | 3.3                                     | 46                                         | 15.0      | 12.5      | 29.3      | 28            |
| RN 232-0.6-02-47M  | 0.6                                 | 40                               | 47.0                                    | 1300                                       | 15.0      | 12.5      | 34.3      | 37            |
| RN 232-1-02-18M    | 1.0                                 | 40                               | 18.0                                    | 390                                        | 15.0      | 12.5      | 34.3      | 38            |
| RN 232-1.6-02-10M  | 1.6                                 | 40                               | 10.0                                    | 170                                        | 15.0      | 12.5      | 34.3      | 38            |
| RN 232-2.5-02-5M6  | 2.5                                 | 40                               | 5.6                                     | 86                                         | 15.0      | 12.5      | 34.3      | 38            |
| RN 232-4-02-3M3    | 4.0                                 | 40                               | 3.3                                     | 54                                         | 15.0      | 12.5      | 34.3      | 38            |
| RN 242-0.5-02-82M  | 0.5                                 | 40                               | 82.0                                    | 2700                                       | 15.0      | 12.5      | 34.3      | 37            |
| RN 242-1-02-33M    | 1.0                                 | 40                               | 33.0                                    | 810                                        | 15.0      | 12.5      | 34.3      | 38            |
| RN 242-1.4-02-27M  | 1.4                                 | 40                               | 27.0                                    | 500                                        | 15.0      | 12.5      | 34.3      | 38            |
| RN 242-2-02-6M8    | 2.0                                 | 40                               | 6.8                                     | 192                                        | 15.0      | 12.5      | 34.3      | 37            |
| RN 242-4-02-3M3    | 4.0                                 | 40                               | 3.3                                     | 67                                         | 15.0      | 12.5      | 34.3      | 38            |
| RN 242-6-02-1M8    | 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)

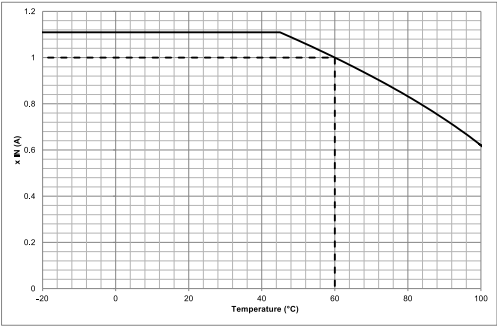
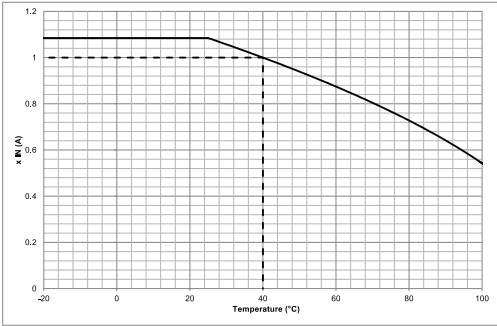
Orientation (1 = horizontal; 2 = vertical)

Familyname

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.

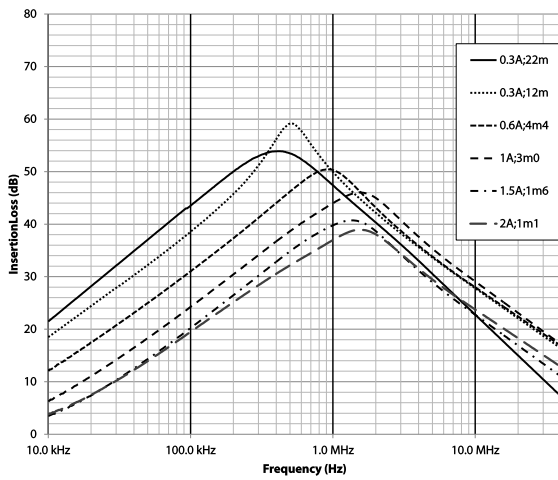


## Typical attenuation/resonance frequency characteristics

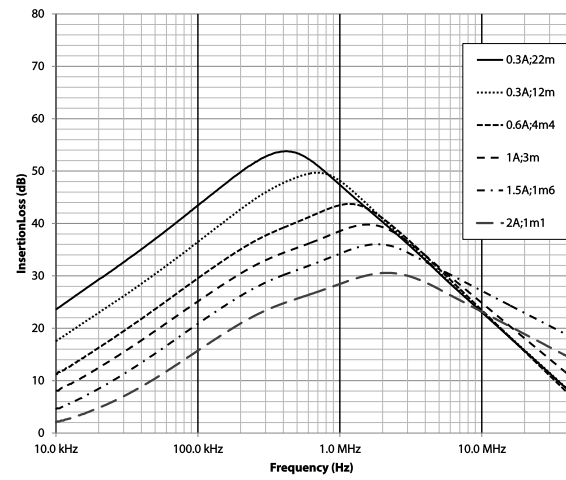
Per CISPR 17; 50  $\Omega$ /50  $\Omega$  asym

X can be exchanged with either 1 or 2 for different housing configuration, attenuation is similar

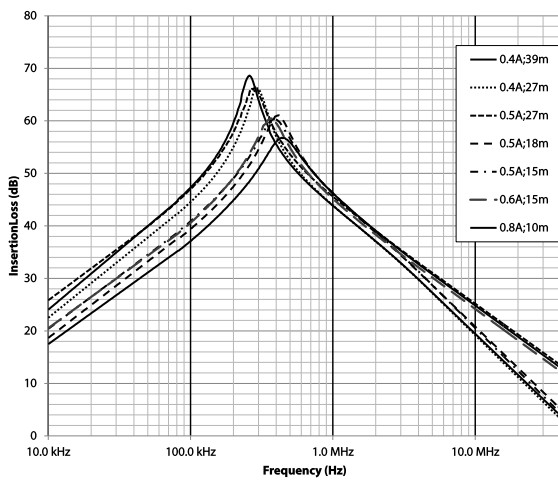
RN 102, RN 202



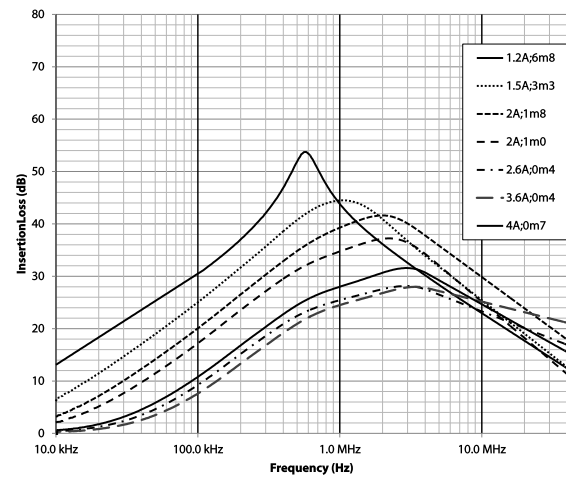
RN 204



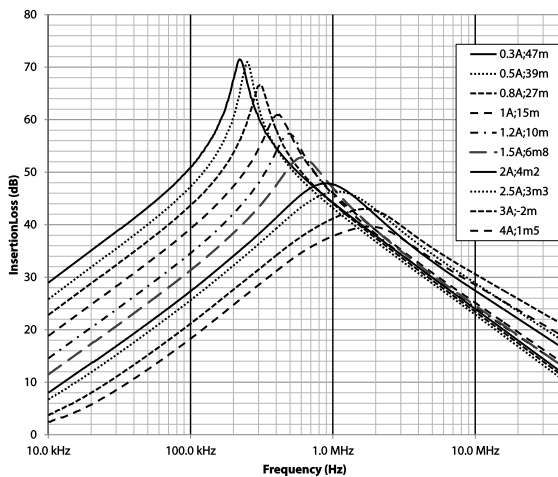
RN 112, RN 212 (<1 A)



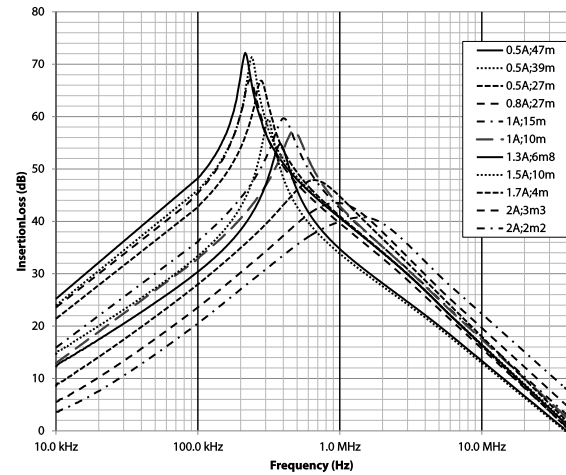
RN 112, RN 212 (>1 A)



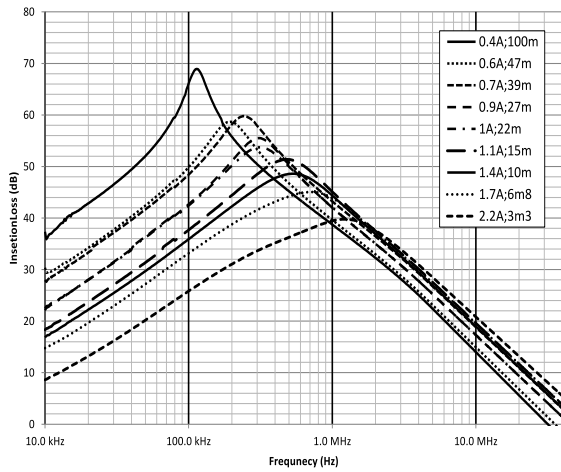
RN 114, RN 214



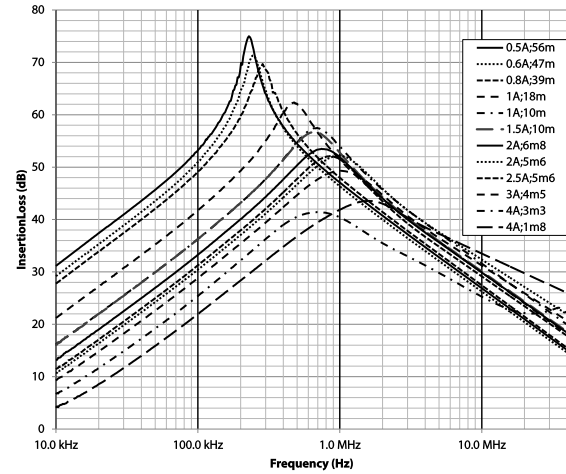
RN 116, RN 216



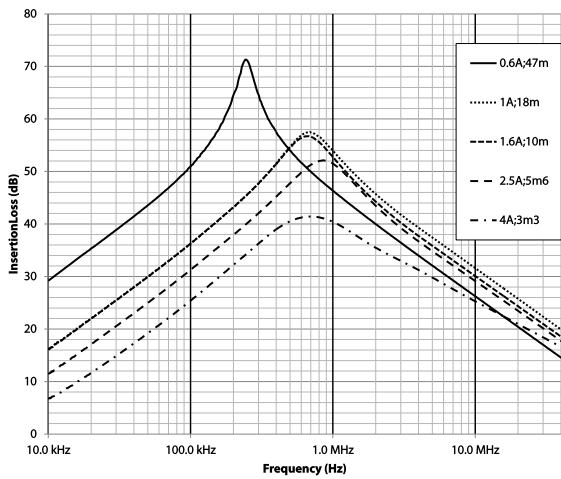
RN 218



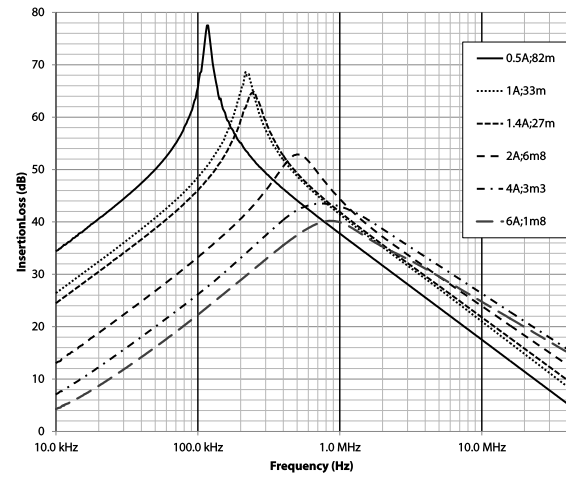
RN 122, RN 222



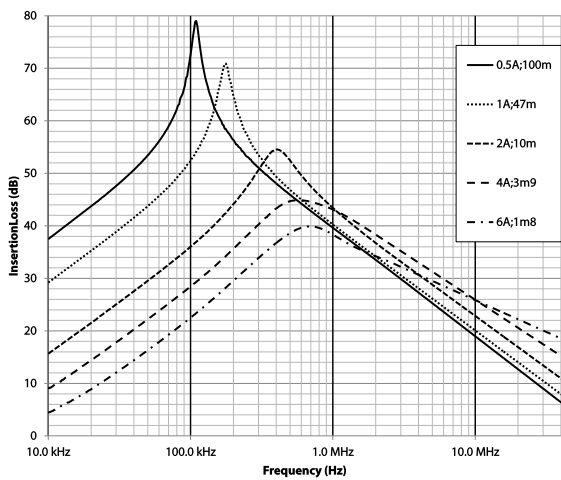
RN 232



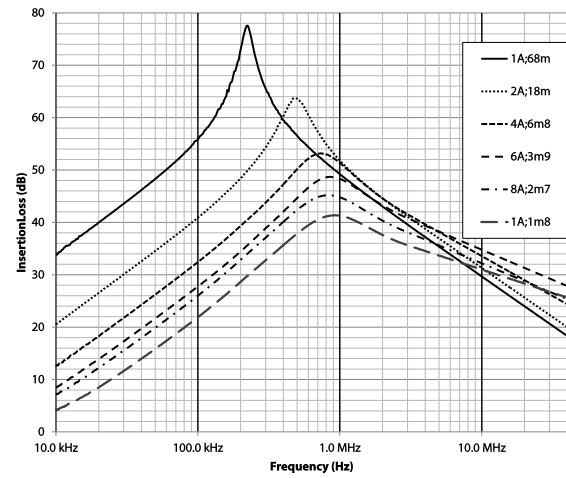
RN 142, RN 242



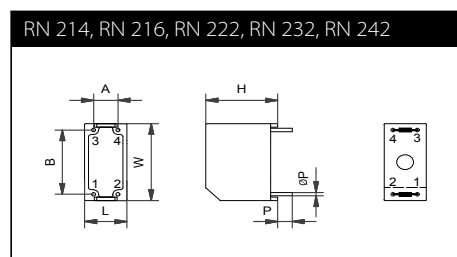
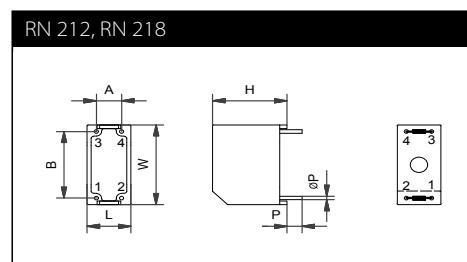
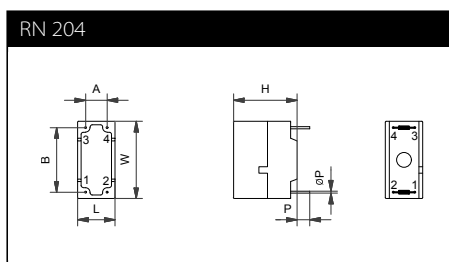
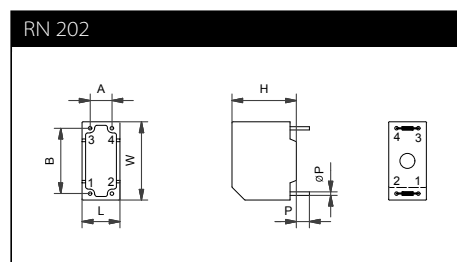
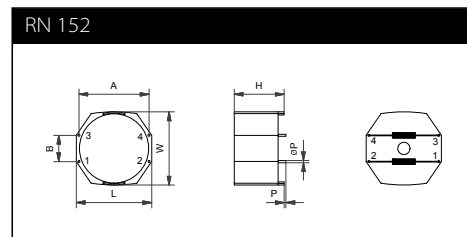
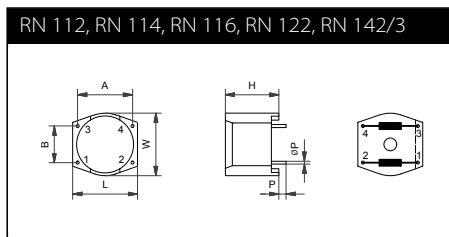
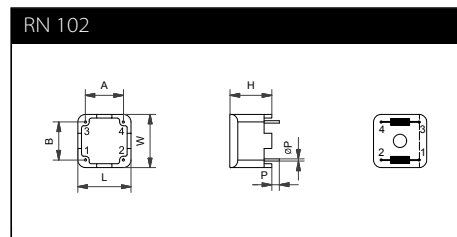
RN 143



RN 152



## Mechanical data



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

## Dimensions

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

### Switzerland

#### Schaffner Group

Industrie Nord  
Nordstrasse 11e  
4542 Luterbach  
T +41 32 681 66 26  
[info@schaffner.com](mailto:info@schaffner.com)

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## Sales and application centers

### China

#### Schaffner EMC Ltd. Shanghai

T20-3 C, No 565 Chuangye Road,  
Pudong district  
201201 Shanghai  
T +86 21 3813 9500  
[cschina@schaffner.com](mailto:cschina@schaffner.com)  
[www.schaffner.com.cn](http://www.schaffner.com.cn)

### Finland

#### Schaffner Oy

Sauvonrinne 19 H  
08500 Lohja  
T +358 10 567 2855  
[finlandsales@schaffner.com](mailto:finlandsales@schaffner.com)

### France

#### Schaffner EMC S.A.S.

16-20 Rue Louis Rameau  
95875 Bezons  
T +33 1 34 34 30 60  
F +33 1 39 47 02 28  
[francesales@schaffner.com](mailto:francesales@schaffner.com)

### Germany

#### Schaffner Deutschland GmbH

Schoemperlenstrasse 12B  
76185 Karlsruhe  
T +49 721 56910  
F +49 721 569110  
[germanysales@schaffner.com](mailto:germanysales@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  
T +91 80 67935355  
[indiasales@schaffner.com](mailto:indiasales@schaffner.com)

### Italy

#### Schaffner EMC S.r.l.

Via Ticino, 30  
20900 Monza (MB)  
T +39 039 21 41 070  
[italysales@schaffner.com](mailto:italysales@schaffner.com)

### Japan

#### Schaffner EMC K.K.

Taiju-Seimei Sangenjaya Bldg.  
1-32-12, Kamiuma, Setagaya-ku  
154-0011 Tokyo  
T +81 3 5712 3650  
F +81 3 5712 3651  
[japansales@schaffner.com](mailto:japansales@schaffner.com)  
[www.schaffner.jp](http://www.schaffner.jp)

### Singapore

#### Schaffner EMC Pte Ltd.

#05-09, Kg Ubi Ind. Estate  
408705 Singapore  
T +65 6377 3283  
F +65 6377 3281  
[singaporesales@schaffner.com](mailto:singaporesales@schaffner.com)

### Spain

#### Schaffner EMC España

Calle Caléndula 93, Miniparc III, Edificio E  
El Soto de Moraleja, Alcobendas  
28109 Madrid  
T +34 917 912 900  
F +34 917 912 901  
[spainsales@schaffner.com](mailto:spainsales@schaffner.com)

### Sweden

#### Schaffner EMC AB

Östermalmstorg 1  
114 42 Stockholm  
T +46 8 5050 2425  
[swedensales@schaffner.com](mailto:swedensales@schaffner.com)  
[www.schaffner.com](http://www.schaffner.com)

### Switzerland

#### Schaffner EMV AG

Industrie Nord  
Nordstrasse 11e  
4542 Luterbach  
T +41 32 681 66 26  
[switzerlandsales@schaffner.com](mailto:switzerlandsales@schaffner.com)

### Taiwan R.O.C.

#### Schaffner EMV Ltd.

20 Floor-2, No 97, Section 1, XinTai 5th Road  
22175 XiZhi District New Taipei City 22175  
T +886 2 2697 5500  
F +886 2 2697 5533  
[taiwansales@schaffner.com](mailto:taiwansales@schaffner.com)  
[www.schaffner.com.tw](http://www.schaffner.com.tw)

### Thailand

#### Schaffner EMC Co. Ltd.

Northern Region Industrial Estate  
67 Moo 4 Tambon Ban Klang  
Amphur Muang P.O. Box 14  
51000 Lamphun  
T +66 53 58 11 04  
F +66 53 58 10 19  
[thailandsales@schaffner.com](mailto:thailandsales@schaffner.com)

### United Kingdom

#### Schaffner Ltd.

1, Oakmede Place  
Binfield  
RG42 4JF Berkshire  
T +44 118 9770070  
F +44 118 9792969  
[uksales@schaffner.com](mailto:uksales@schaffner.com)

### USA

#### Schaffner EMC Inc.

52 Mayfield Avenue  
Edison, New Jersey  
T +1 732 225 9533  
F +1 732 225 4789  
[usasales@schaffner.com](mailto:usasales@schaffner.com)  
[www.schaffnerusa.com](http://www.schaffnerusa.com)

#### Schaffner North America

6722 Thirlane Road  
24019 Roanoke, Virginia  
T +1 276 228 7943  
F +1 276 228 7953

#### Schaffner North America

823 Fairview Road  
24382 Wytheville, Virginia  
T +1 276 228 7943  
F +1 276 228 7258

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)