

## Choke selection table

| Choke*        | Nominal current<br>@ 40 °C | Inductance<br>L | Resistance<br>R | Choke<br>configuration | Input/Output<br>connections                                                         | Type 1 | Weight<br>Type 2 |
|---------------|----------------------------|-----------------|-----------------|------------------------|-------------------------------------------------------------------------------------|--------|------------------|
|               | [A]                        | [mH/path]       | [mΩ/path]       | [Qty]                  |  | [g]    | [g]              |
| RN x02-0.3-02 | 0.3                        | 12              | 1275            | 2                      | -02                                                                                 | 2      | 3                |
| RN x02-0.6-02 | 0.6                        | 4.4             | 385             | 2                      | -02                                                                                 | 2      | 3                |
| RN x02-1-02   | 1                          | 3               | 205             | 2                      | -02                                                                                 | 2      | 3                |
| RN x02-1.5-02 | 1.5                        | 1.6             | 100             | 2                      | -02                                                                                 | 2      | 3                |
| RN x02-2-02   | 2                          | 1.1             | 70              | 2                      | -02                                                                                 | 2      | 3                |
|               |                            |                 |                 |                        |                                                                                     |        |                  |
| RN x12-0.4-02 | 0.4                        | 39              | 1460            | 2                      | -02                                                                                 | 5      | 6                |
| RN x12-0.5-02 | 0.5                        | 27              | 1250            | 2                      | -02                                                                                 | 5      | 6                |
| RN x12-0.6-02 | 0.6                        | 15              | 465             | 2                      | -02                                                                                 | 5      | 6                |
| RN x12-0.8-02 | 0.8                        | 10              | 370             | 2                      | -02                                                                                 | 5      | 6                |
| RN x12-1.2-02 | 1.2                        | 6.8             | 245             | 2                      | -02                                                                                 | 5      | 6                |
| RN x12-1.5-02 | 1.5                        | 3.3             | 135             | 2                      | -02                                                                                 | 5      | 6                |
| RN x12-2-02   | 2                          | 1.8             | 75              | 2                      | -02                                                                                 | 5      | 6                |
| RN x12-4-02   | 4                          | 0.7             | 27              | 2                      | -02                                                                                 | 5      | 6                |
|               |                            |                 |                 |                        |                                                                                     |        |                  |
| RN x14-0.3-02 | 0.3                        | 47              | 1750            | 2                      | -02                                                                                 | 9      | 12               |
| RN x14-0.5-02 | 0.5                        | 39              | 810             | 2                      | -02                                                                                 | 9      | 12               |
| RN x14-0.8-02 | 0.8                        | 27              | 500             | 2                      | -02                                                                                 | 9      | 12               |
| RN x14-1-02   | 1                          | 15              | 375             | 2                      | -02                                                                                 | 9      | 12               |
| RN x14-1.2-02 | 1.2                        | 10              | 200             | 2                      | -02                                                                                 | 9      | 12               |
| RN x14-1.5-02 | 1.5                        | 6.8             | 130             | 2                      | -02                                                                                 | 9      | 12               |
| RN x14-2-02   | 2                          | 4.2             | 102             | 2                      | -02                                                                                 | 9      | 12               |
| RN x14-2.5-02 | 2.5                        | 3.3             | 72              | 2                      | -02                                                                                 | 9      | 12               |
| RN x14-3-02   | 3                          | 2               | 55              | 2                      | -02                                                                                 | 9      | 12               |
| RN x14-4-02   | 4                          | 1.5             | 35              | 2                      | -02                                                                                 | 9      | 12               |
|               |                            |                 |                 |                        |                                                                                     |        |                  |
| RN x22-0.6-02 | 0.6                        | 47              | 1180            | 2                      | -02                                                                                 | 17     | 21               |
| RN x22-0.8-02 | 0.8                        | 39              | 1000            | 2                      | -02                                                                                 | 17     | 21               |
| RN x22-1-02   | 1                          | 18              | 610             | 2                      | -02                                                                                 | 17     | 21               |
| RN x22-1.5-02 | 1.5                        | 10              | 220             | 2                      | -02                                                                                 | 17     | 21               |
| RN x22-2-02   | 2                          | 6.8             | 147             | 2                      | -02                                                                                 | 17     | 21               |
| RN x22-2.5-02 | 2.5                        | 5.6             | 105             | 2                      | -02                                                                                 | 17     | 21               |
| RN x22-3-02   | 3                          | 4.5             | 80              | 2                      | -02                                                                                 | 17     | 21               |
| RN x22-4-02   | 4                          | 3.3             | 45              | 2                      | -02                                                                                 | 17     | 21               |
|               |                            |                 |                 |                        |                                                                                     |        |                  |
| RN x42-0.5-02 | 0.5                        | 82              | 2700            | 2                      | -02                                                                                 | 32     | 32               |
| RN x42-1-02   | 1                          | 33              | 810             | 2                      | -02                                                                                 | 32     | 32               |
| RN x42-1.4-02 | 1.4                        | 27              | 500             | 2                      | -02                                                                                 | 32     | 32               |
| RN x42-2-02   | 2                          | 6.8             | 190             | 2                      | -02                                                                                 | 32     | 32               |
| RN x42-4-02   | 4                          | 3.3             | 66              | 2                      | -02                                                                                 | 32     | 32               |
| RN x42-6-02   | 6                          | 1.8             | 20              | 2                      | -02                                                                                 | 32     | 32               |

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|---------------|----------------------------|-----------------|-----------------|------------------------|-------------------------------------------------------------------------------------|--------|------------------|
|               | [A]                        | [mH/path]       | [mΩ/path]       | [Qty]                  |  | [g]    | [g]              |
| RN 143-0.5-02 | 0.5                        | 100             | 2900            | 2                      | -02                                                                                 | 33     |                  |
| RN 143-1-02   | 1                          | 47              | 880             | 2                      | -02                                                                                 | 33     |                  |
| RN 143-2-02   | 2                          | 10              | 230             | 2                      | -02                                                                                 | 33     |                  |
| RN 143-4-02   | 4                          | 3.9             | 58              | 2                      | -02                                                                                 | 33     |                  |
| RN 143-6-02   | 6                          | 1.8             | 20              | 2                      | -02                                                                                 | 33     |                  |
| RN 152-1-02   | 1                          | 68              | 1300            | 2                      | -02                                                                                 | 54     |                  |
| RN 152-2-02   | 2                          | 18              | 350             | 2                      | -02                                                                                 | 54     |                  |
| RN 152-4-02   | 4                          | 6.8             | 87              | 2                      | -02                                                                                 | 54     |                  |
| RN 152-6-02   | 6                          | 3.9             | 41              | 2                      | -02                                                                                 | 54     |                  |
| RN 152-8-02   | 8                          | 2.7             | 22              | 2                      | -02                                                                                 | 54     |                  |
| RN 152-10-02  | 10                         | 1.8             | 14              | 2                      | -02                                                                                 | 54     |                  |

\* Replace the x by the desired housing style type 1 or 2.

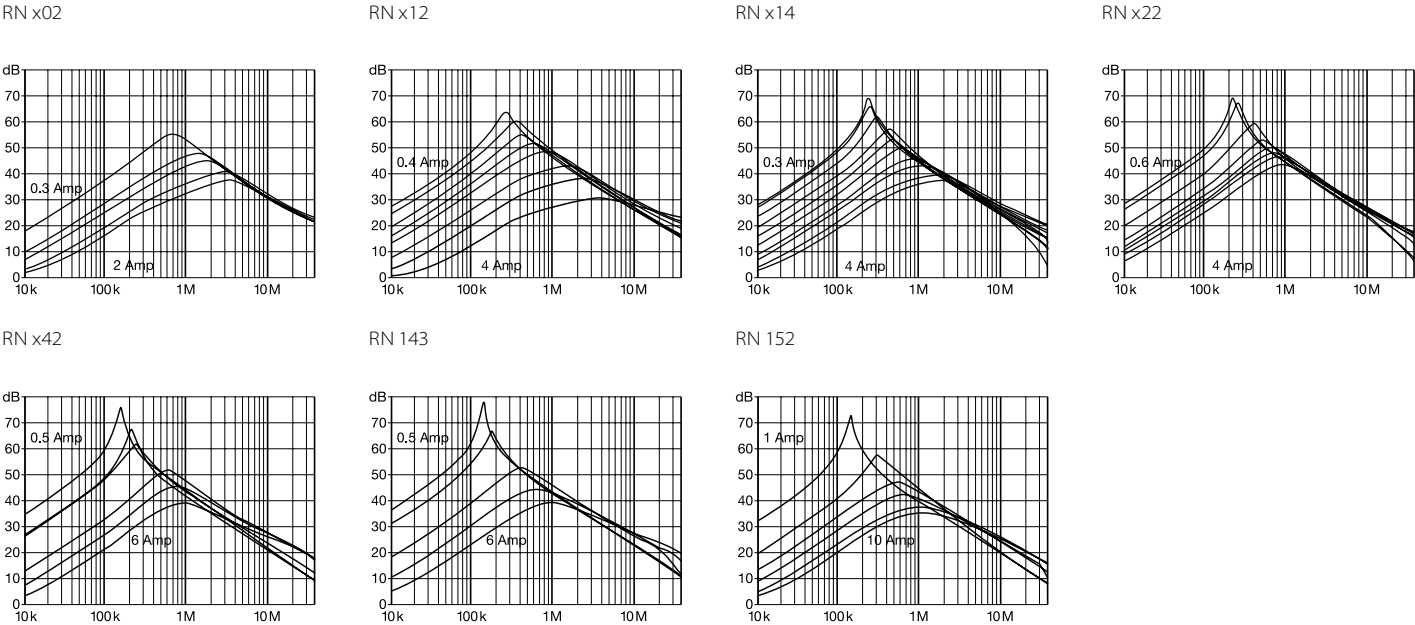
1: Choke horizontal

2: Choke vertical

Test conditions:  
Measuring frequency: 10 kHz; 50mV  
Inductance tolerance: +50%, -30%  
Resistance tolerance: max. ±15% @ 25 °C; ≤ 20mΩ, 1 A; > 20mΩ ≤ 200mΩ, 100mA; > 200mΩ ≤ 2Ω, 10mA  
Electrical characteristics @ 25 °C: ±2°C

Typical choke attenuation/resonance frequency characteristics

Per CISPR 17; 50 Ω/50 Ω asym

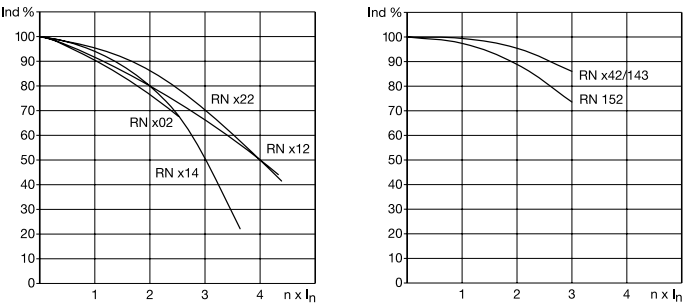


Typical saturation characteristics

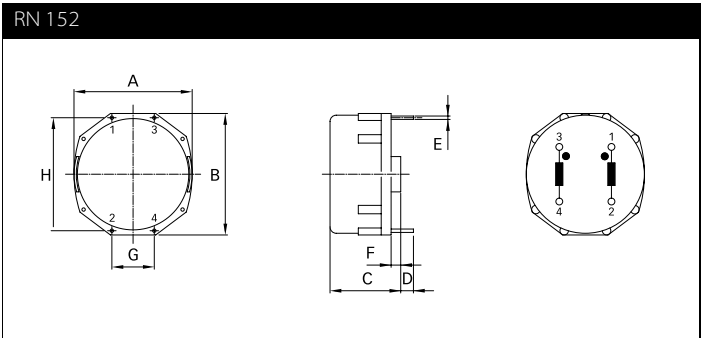
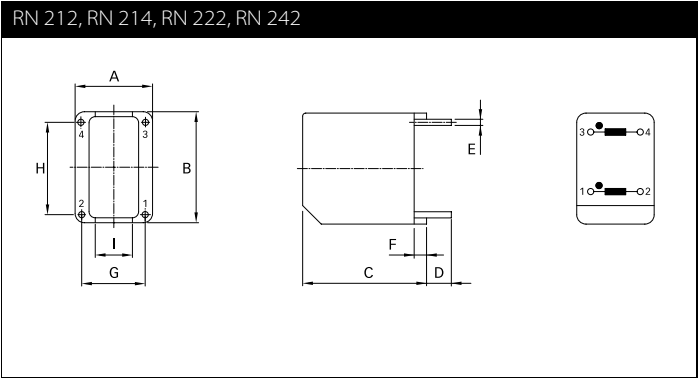
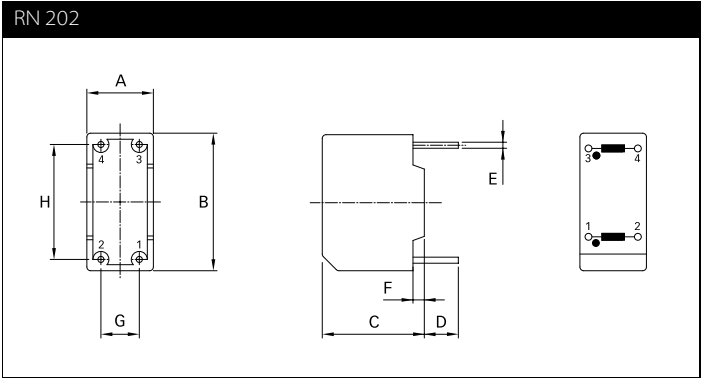
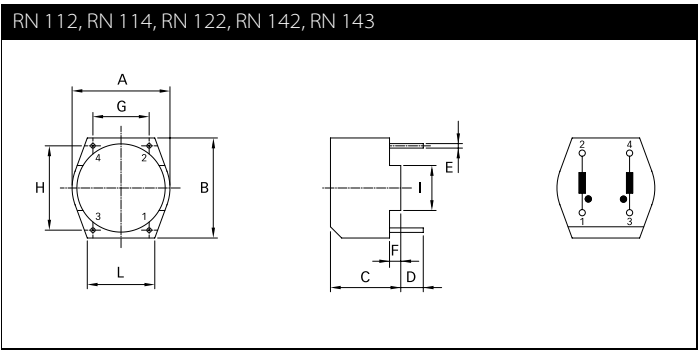
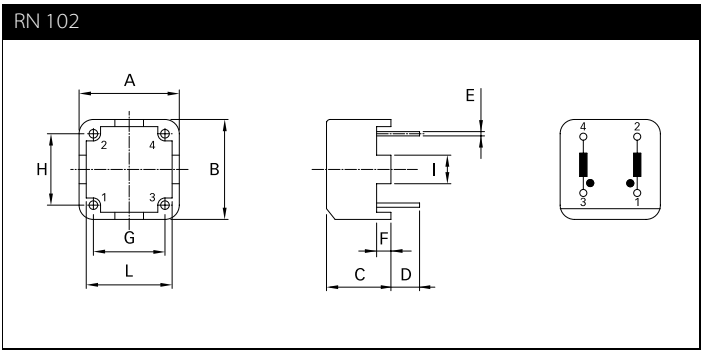
Inductance (typical value in %) vs. nominal current (A DC)

RN x02 / RN x12 / RN x14 / RN x22

RN x42 / RN 143 / RN 152



Mechanical data



Dimensions

|   | RN 102 | RN 112 | RN 114 | RN 122 | RN 202 | RN 212 | RN 214 | RN 222 | RN 142 | RN 143 | RN 242 | RN 152 | ToI. |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| A | 14     | 17.1   | 21.5   | 27     | 8.8    | 12.5   | 15.5   | 18     | 32.5   | 32.5   | 18     | 41.8   | ±0.3 |
| B | 14     | 17.7   | 22.5   | 28     | 18.2   | 18     | 23     | 31     | 33.1   | 33.1   | 31     | 43     | ±0.3 |
| C | 9      | 12.6   | 13.2   | 16.5   | 13.5   | 20     | 25     | 29.3   | 19.7   | 19.7   | 34.3   | 25     | ±0.3 |
| D | 4      | 4      | 4      | 4      | 4.5    | 4      | 4      | 4      | 4.3    | 4.3    | 4.2    | 4.5    | ±0.5 |
| E | 0.6    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.2    | ±0.1 |
| F | 2      | 2      |        |        | 1.5    | 2      |        |        |        |        |        |        |      |
| G | 10     | 10     | 12.5   | 15     | 5.08   | 10     | 12.5   | 15     | 20     | 20     | 15     | 15     | ±0.6 |
| H | 10     | 15     | 20.1   | 25     | 15.21  | 15     | 10     | 12.5   | 30     | 30     | 12.5   | 40     | ±0.6 |
| I | 4      | 8      |        |        |        |        |        |        |        |        |        |        |      |
| L | 12     | 12     |        |        |        |        |        |        |        |        |        |        |      |

All dimensions in mm; 1 inch = 25.4 mm  
Tolerances according: ISO 2768-m / EN 22768-m

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



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