

# **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										
Inductance value [mH]										
0	20	40	60	80	100					
0.4					100					
0.4					100					
Rated	current [	A]								
0	30	60	90	120	150					
0.3	10									

# **Technical Specifications**

Operating voltage Operating frequency Rated currents Rated inductance Stray inductance Inductance reduction (DC bias with IN) Surge current @ 10 msec Temperature range (operation and storage)

Flammability corresponding to

Design corresponding to

300 VAC DC to 400 Hz 0.3 to 10 A 0.3 to 10 A @ rated ambient temperature 0.4 to 100 mH Typically 1% of Ln Less than 10% (25°C) 20 x nominal current @ 25°C 40°C to 100°C (40/100/56) acc. IEC 60068-1 Housing UL 94V-0 Potting compound UL 94V-0 Ringcore coating UL 94V-0 Ringcore coating UL 94V-0



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.

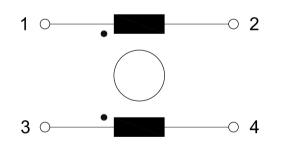
## **Features and Benefits**

- 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**

PRU02.0-2.07.21IPAIP	hoke	Buy	Current (I <sub>N</sub> )	@ ambient temperature	Inductance (L <sub>N</sub> )	Resistance (R <sub>DC</sub> )	A	В	н	Weight																														
NN02-0-3-07.2MNNN<				-		[mOhm]	[mm]	[mm]	[mm]	(g)																														
NND2-05-02-444 NND2-15-02-1MS NND2-15-02-1MS NND2-15-02-1MS NND2-15-02-1MS NND2-15-02-1MS10100 </th <th>N102-0.3-02-22M</th> <th></th> <th>0.3</th> <th>40</th> <th></th> <th>1300</th> <th>10.0</th> <th>10.0</th> <th>9.0</th> <th>4</th>	N102-0.3-02-22M		0.3	40		1300	10.0	10.0	9.0	4																														
NN02-102-X00YeiYeiYeiYeiYeiYeiYeiYeiYeiYeiNN02-102-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiNN12-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiNN12-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiYeiNN12-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiYeiNN12-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiYeiNN12-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiYeiNN12-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiYeiNN12-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiYeiNN12-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiYeiNN12-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiYeiNN12-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiNN12-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiYeiNN14-0-22-X1YeiYeiYeiYeiYeiYeiYeiYeiNN1	N102-0.3-02-12M			40	12.0	1100	10.0	10.0	9.0	3																														
NN02-15-92-MG NN02-202-MIM10M000000000NN12-6-02-SM NN12-6-02-SM11 <t< th=""><th>N102-0.6-02-4M4</th><th></th><th>0.6</th><th>40</th><th></th><th>380</th><th>10.0</th><th>10.0</th><th>9.0</th><th>3</th></t<>	N102-0.6-02-4M4		0.6	40		380	10.0	10.0	9.0	3																														
FN022-02:MIMGG	N102-1-02-3M0		1.0	40	3.0	210	10.0	10.0	9.0	3																														
PN12-0.4-02.39MPN12-0.2-02.39MPN12-0.2-02.30	N102-1.5-02-1M6	¥	1.5	40	1.6	94	10.0	10.0	9.0	3																														
NH12.0.4.02.27MMM0.64	N102-2-02-1M1	¥	2.0	40	1.1	70	10.0	10.0	9.0	3																														
NIT2-0.5-02-27MNN000	N112-0.4-02-39M	¥	0.4	40	39.0	1500	15.0	10.0	12.6	6																														
NN12-6.5-02-18MM	N112-0.4-02-27M	¥	0.4	40	27.0	1400	15.0	10.0	12.6	6																														
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<th>\bdoy&lt;<th>\bdoy&lt;<th>\bdoy&lt;<th>\bdoy&lt;<th>\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy&lt;</th><th>N112-0.5-02-27M</th><th>¥</th><th>0.5</th><th>40</th><th>27.0</th><th>1200</th><th>15.0</th><th>10.0</th><th>12.6</th><th>б</th></th></th></th></th>	\bdoy< <th>\bdoy&lt;<th>\bdoy&lt;<th>\bdoy&lt;<th>\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy&lt;</th><th>N112-0.5-02-27M</th><th>¥</th><th>0.5</th><th>40</th><th>27.0</th><th>1200</th><th>15.0</th><th>10.0</th><th>12.6</th><th>б</th></th></th></th>	\bdoy< <th>\bdoy&lt;<th>\bdoy&lt;<th>\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy&lt;</th><th>N112-0.5-02-27M</th><th>¥</th><th>0.5</th><th>40</th><th>27.0</th><th>1200</th><th>15.0</th><th>10.0</th><th>12.6</th><th>б</th></th></th>	\bdoy< <th>\bdoy&lt;<th>\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy&lt;</th><th>N112-0.5-02-27M</th><th>¥</th><th>0.5</th><th>40</th><th>27.0</th><th>1200</th><th>15.0</th><th>10.0</th><th>12.6</th><th>б</th></th>	\bdoy< <th>\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy&lt;</th> <th>N112-0.5-02-27M</th> <th>¥</th> <th>0.5</th> <th>40</th> <th>27.0</th> <th>1200</th> <th>15.0</th> <th>10.0</th> <th>12.6</th> <th>б</th>	\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy\bdoy<	N112-0.5-02-27M	¥	0.5	40	27.0	1200	15.0	10.0	12.6	б
RN12-06-02-19MM<	N112-0.5-02-18M	¥	0.5	40	18.0	1100	15.0	10.0	12.6	6																														
NIN2-16-02-00MNNNNNNNNNIN2-16-02-M3NN <th>N112-0.5-02-15M</th> <th>¥</th> <th>0.5</th> <th>40</th> <th>15.0</th> <th>700</th> <th>15.0</th> <th>10.0</th> <th>12.6</th> <th>6</th>	N112-0.5-02-15M	¥	0.5	40	15.0	700	15.0	10.0	12.6	6																														
RNI2.12.02.6M8MM124068205155160126RNI2.42.02.M3M124033100155100126RNI2.42.02.M4M20401007055100126RNI2.4.62.04M204004400155100126RNI2.4.62.04M2040040400155100126RNI2.4.62.047M034040070150125132RNI4.0.5.02.39MM0340400700201125132RNI4.0.5.02.39MM0340150300201125132RNI4.0.5.02.39MM10040150300201125132RNI4.1.62.04M10040150300201125132RNI4.4.20.4M2M10040130125132132RNI4.4.02.1M5M12040400130125132RNI4.4.02.1M5M12040140120125132RNI4.4.02.1M5M12040400120125132RNI4.4.02.1M5M12040400120125132RNI4.5.02.2M6M120120125132132RNI4.5.02.2M6M120120125132132RNI4.6.02.27MM	N112-0.6-02-15M	¥	0.6	40	15.0	490	15.0	10.0	12.6	б																														
FNT12-502.3MSÝÍÍ <t< th=""><th>N112-0.8-02-10M</th><th>¥</th><th>0.8</th><th>40</th><th>10.0</th><th>380</th><th>15.0</th><th>10.0</th><th>12.6</th><th>6</th></t<>	N112-0.8-02-10M	¥	0.8	40	10.0	380	15.0	10.0	12.6	6																														
NN12-2-02-1M0Ý120120130100120NN12-2-02-M4Ý204010040100100126NN12-5-02-0M4Ý3040404400400100100100NN12-6-02-0M4Ý3040400400100100100100NN12-6-02-0M7Ý100100100100100100100100NN12-6-02-0M7Ý100100100100100100100100100NN14-02-02-0M7Ý100100100100100100100100100100100NN14-02-02-0MÝ10010	N112-1.2-02-6M8	¥	1.2	40	6.8	250	15.0	10.0	12.6	6																														
RNT2-2-02-MONN0100 <th< th=""><th>N112-1.5-02-3M3</th><th></th><th>1.5</th><th>40</th><th>3.3</th><th>102</th><th>15.0</th><th>10.0</th><th>12.6</th><th>б</th></th<>	N112-1.5-02-3M3		1.5	40	3.3	102	15.0	10.0	12.6	б																														
RN12.2.6-02-0M4M26400.044.041.051.001.26RN12.4.36-02-0M4M364.000.071.501.501.001.26RN12-02-0M4M0.030.040.070.071.500.001.251.32RN14-03-02-47MM0.030.400.700.201.251.321.32RN14-0.40-02-7MM0.030.400.700.201.251.321.32RN14-0.40-02-7MM0.030.400.150.300.201.251.321.32RN14-0.40-02-7MM0.030.400.400.150.200.211.321.32RN14-10-02-0MM0.120.400.400.150.200.211.321.32RN14-20-2M0M0.120.400.400.400.200.211.321.32RN14-20-2M0M0.200.200.210.121.321.321.32RN14-02-1M5M0.400.400.400.400.101.251.321.32RN14-02-1M5M0.400.400.400.400.101.251.321.32RN14-02-1M5M0.400.400.400.400.101.251.321.32RN14-02-1M5M0.400.400.400.400.101.251.321.32RN14-02-1M5M0.400.400.400.40	N112-2-02-1M8			40	1.8	74	15.0	10.0	12.6	6																														
RN12.3.6-02-0M4 RN12.4-02-0M7M M<	N112-2-02-1M0			40	1.0	70			12.6	б																														
RN12-4-02-0M7M404000110112112RN14-03-02-47MM0040400001015132132RN14-05-02-39MM0000001015132132RN14-05-02-37MM000001015132132RN14-10-00-02-7MM000001015123132RN14-12-02-10MM112000010151215132RN14-2-02-10MM000010151215132RN14-2-02-10MM00001215132132RN14-2-02-10MM0001215132132RN14-2-02-10MM0001215132132RN14-2-02-10MM0001215132132RN14-02-10MM0001215132132RN16-02-27MM0001215132132RN16-02-027MM0001215132132RN16-02-027MM00001215132RN16-02-027MM00001215132RN16-02-027MM0000125132RN16-02-027MM00 </th <th>N112-2.6-02-0M4</th> <th></th> <th>2.6</th> <th>40</th> <th>0.4</th> <th>40</th> <th>15.0</th> <th>10.0</th> <th>12.6</th> <th>6</th>	N112-2.6-02-0M4		2.6	40	0.4	40	15.0	10.0	12.6	6																														
NumberNumbe	N112-3.6-02-0M4		3.6	40	0.4	27	15.0	10.0	12.6	б																														
RNI14-0.5-02.39MNNN <th>N112-4-02-0M7</th> <th>¥</th> <th>4.0</th> <th>40</th> <th>0.7</th> <th>24</th> <th>15.0</th> <th>10.0</th> <th>12.6</th> <th>6</th>	N112-4-02-0M7	¥	4.0	40	0.7	24	15.0	10.0	12.6	6																														
RNIA-0.8-02-27MNNN	N114-0.3-02-47M	¥	0.3	40	47.0	1700	20.1	12.5	13.2	10																														
RNI14-102-15MMM1MM <t< th=""><th>N114-0.5-02-39M</th><th>¥</th><th>0.5</th><th>40</th><th>39.0</th><th>830</th><th>20.1</th><th>12.5</th><th>13.2</th><th>11</th></t<>	N114-0.5-02-39M	¥	0.5	40	39.0	830	20.1	12.5	13.2	11																														
RNI14-12-02-10M111	N114-0.8-02-27M	¥	0.8	40	27.0	500	20.1	12.5	13.2	11																														
RNI14-1.5-02-6MBMM115406681231201125132RNI14-2-02-AM2M20400440100201125132RNI14-25-02-3M3M30400333772201125132RNI14-20-2M0M304401337731201125132RNI14-402-IMSM1404001331201125132RNI16-05-02-3MM056004700900201125132RNI16-05-02-3MM056002700200125132RNI16-05-02-3MM056002700200125132RNI16-05-02-3MM056002700200125132RNI16-02-1SMM05600200120125132RNI16-02-1SMM1006001000120125132RNI16-12-1SMM1006001000120125132RNI16-12-1SMM1006001000120125132RNI16-12-12-12MM1006001000120125132RNI16-12-12-12MM100100100120125132RNI16-12-12-12MM100100100120125132RNI16-12-12-12MM100100100100100100RNI16-12-12-12M	N114-1-02-15M	¥	1.0	40	15.0	370	20.1	12.5	13.2	10																														
RNII4-20-24M2MMCMM <t< th=""><th>N114-1.2-02-10M</th><th>¥</th><th>1.2</th><th>40</th><th>10.0</th><th>195</th><th>20.1</th><th>12.5</th><th>13.2</th><th>10</th></t<>	N114-1.2-02-10M	¥	1.2	40	10.0	195	20.1	12.5	13.2	10																														
RNII4-25-02-3M3MMCMM	N114-1.5-02-6M8	¥	1.5	40	6.8	123	20.1	12.5	13.2	11																														
RNI14-3-02-2M0 RNI14-4-02-IMSN M M M133133133133RNI14-4-02-IMSM M M MM M MM M M MM M M M MM <br< th=""><th>N114-2-02-4M2</th><th>¥</th><th>2.0</th><th>40</th><th>4.2</th><th>100</th><th>20.1</th><th>12.5</th><th>13.2</th><th>11</th></br<>	N114-2-02-4M2	¥	2.0	40	4.2	100	20.1	12.5	13.2	11																														
RNI14-4-02-IMSIII<	N114-2.5-02-3M3	¥	2.5	40	3.3	72	20.1	12.5	13.2	11																														
Number of the second	N114-3-02-2M0	¥	3.0	40	2.0	52	20.1	12.5	13.2	10																														
RNII6-0.5-02-39MM M GG </th <th>N114-4-02-1M5</th> <th>₩</th> <th>4.0</th> <th>40</th> <th>1.5</th> <th>34</th> <th>20.1</th> <th>12.5</th> <th>13.2</th> <th>11</th>	N114-4-02-1M5	₩	4.0	40	1.5	34	20.1	12.5	13.2	11																														
RNII6-0.5-02-39MMGOS	N116-0.5-02-47M	Ŀ	0.5	60	47.0	960	20.1	12.5	13.2	11																														
RNII6-0.5-02-27MN N N N SN <b< th=""><th></th><th></th><th></th><th>60</th><th>39.0</th><th>920</th><th>20.1</th><th>12.5</th><th>13.2</th><th>11</th></b<>				60	39.0	920	20.1	12.5	13.2	11																														
RNIIG-0.8-02-27MNN000 <th>N116-0.5-02-27M</th> <th></th> <th>0.5</th> <th>60</th> <th>27.0</th> <th>790</th> <th>20.1</th> <th>12.5</th> <th>13.2</th> <th>11</th>	N116-0.5-02-27M		0.5	60	27.0	790	20.1	12.5	13.2	11																														
RNII6-1-02-15MImage: style intermediate inter	N116-0.8-02-27M		0.8	60	27.0	370	20.1	12.5	13.2	13																														
RNI16-1-02-10MN10100 <th>N116-1-02-15M</th> <th></th> <th>1.0</th> <th>60</th> <th>15.0</th> <th>260</th> <th>20.1</th> <th>12.5</th> <th>13.2</th> <th>12</th>	N116-1-02-15M		1.0	60	15.0	260	20.1	12.5	13.2	12																														
RNII6-1.3-02-6M8MMM <th>N116-1-02-10M</th> <th></th> <th>1.0</th> <th>60</th> <th>10.0</th> <th>210</th> <th>20.1</th> <th>12.5</th> <th>13.2</th> <th>11</th>	N116-1-02-10M		1.0	60	10.0	210	20.1	12.5	13.2	11																														
RNI16-1.5-02-10MIII <th>N116-1.3-02-6M8</th> <th></th> <th>1.3</th> <th>60</th> <th>6.8</th> <th>140</th> <th>20.1</th> <th>12.5</th> <th>13.2</th> <th>12</th>	N116-1.3-02-6M8		1.3	60	6.8	140	20.1	12.5	13.2	12																														
RNI16-1.7-02-4M0NII <th>N116-1.5-02-10M</th> <th></th> <th>1.5</th> <th>60</th> <th>10.0</th> <th>148</th> <th>20.1</th> <th>12.5</th> <th>13.2</th> <th>12</th>	N116-1.5-02-10M		1.5	60	10.0	148	20.1	12.5	13.2	12																														
RNI16-2-02-2M2Image: style st	N116-1.7-02-4M0		1.7	60	4.0	87	20.1	12.5	13.2	12																														
NoNoNoNoNoNoNoRN122-0.5-02-56MII <td< th=""><th>N116-2-02-3M3</th><th>¥</th><th>2.0</th><th>60</th><th>3.3</th><th>70</th><th>20.1</th><th>12.5</th><th>13.2</th><th>12</th></td<>	N116-2-02-3M3	¥	2.0	60	3.3	70	20.1	12.5	13.2	12																														
RN122-0.6-02-47MMM0.064.004.004.001.001.001.00RN122-0.8-02.39MMM0.080.080.000.000 <th>N116-2-02-2M2</th> <th>¥</th> <th>2.0</th> <th>60</th> <th>2.2</th> <th>66</th> <th>20.1</th> <th>12.5</th> <th>13.2</th> <th>11</th>	N116-2-02-2M2	¥	2.0	60	2.2	66	20.1	12.5	13.2	11																														
RN122-0.6-02-47MM <th>N122-0.5-02-56M</th> <th>¥</th> <th>0.5</th> <th>40</th> <th>56.0</th> <th>1800</th> <th>25.0</th> <th>15.0</th> <th>16.5</th> <th>20</th>	N122-0.5-02-56M	¥	0.5	40	56.0	1800	25.0	15.0	16.5	20																														
RN122-0.8-02-39MMM00010.010.010.0RN122-1-02-10MMM10.0<	N122-0.6-02-47M		0.6	40	47.0	1300	25.0	15.0	16.5	20																														
RN122-1-02-18MImage: Sector Secto	N122-0.8-02-39M		0.8	40	39.0	1000	25.0	15.0	16.5	20																														
RN122-1-02-10MImage: Sector Secto	N122-1-02-18M		1.0	40	18.0	630	25.0	15.0	16.5	19																														
RN122-1.5-02-10M Image: Marcine Marcin	N122-1-02-10M		1.0	40	10.0	560	25.0	15.0	16.5	19																														
RN122-2-02-6M8 Image: Marcine	N122-1.5-02-10M		1.5	40	10.0	250	25.0	15.0	16.5	20																														
RN122-2-02-5M0 Image: Marcine	N122-2-02-6M8		2.0	40	6.8	156	25.0	15.0	16.5	20																														
RN122-2.5-02-5M6 M 2.5 3.0	N122-2-02-5M0		2.0	40	5.0	140	25.0	15.0	16.5	21																														
RN122-3-02-4M5 1 1 1 3.0 4.0 4.5 80 25.0 15.0 16.5	N122-2.5-02-5M6		2.5	40	5.6	110	25.0	15.0	16.5	20																														
	N122-3-02-4M5		3.0	40	4.5	80	25.0	15.0	16.5	21																														
			4.0	40	3.3	46	25.0	15.0	16.5	22																														
RN122-4-02-1M8 1 4 4. 4. 4. 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.										22																														

Choke	Buy	Current	@ ambient	Inductance	Resistance	A	В	н	Weight
		(I <sub>N</sub> )	temperature	(L <sub>N</sub> )	(R DC )				
		[A]	[°C]	[mH]	[mOhm]	[mm]	[mm]	[ <b>mm</b> ]	(g)
RN142-0.5-02-82M RN142-1-02-33M	¥	0.5	40 40	82.0 33.0	2700	30.0	20.0	19.7 19.7	36 37
RN142-1-02-35M RN142-1.4-02-27M	날 날	1.0 1.4	40	27.0	810 500	30.0 30.0	20.0 20.0	19.7	40
RN142-1.4-02-27M RN142-2-02-6M8	음 날	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	두 날	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 25.0	68 73
RN152-8-02-2M7	¥	8.0	40 40	2.7	22	40.0	15.0	25.0	73 73
RN152-10-02-1M8	¥	10.0	40	1.8	14	40.0	15.0	25.0	/3
RN202-0.3-02-22M	¥	0.3	40	22.0	1300	5.1	15.2	13.5	4
RN202-0.3-02-12M	ų V	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	۰. پ	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	ц Ц	0.4	40	27.0	1400	10.0	15.0	20.0	8
RN212-0.5-02-27M	ų.	0.5	40	27.0	1200	10.0	15.0	20.0	8
RN212-0.5-02-18M	۰. پ	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	음 날	0.5	40	39.0	830	12.5	10.0	25.0	13
RN214-0.8-02-27M	ų.	0.8	40	27.0	500	12.5	10.0	25.0	15
RN214-1-02-15M	ų.	1.0	40	15.0	370	12.5	10.0	25.0	14
RN214-1.2-02-10M	ų.	1.2	40	10.0	195	12.5	10.0	25.0	15
RN214-1.5-02-6M8	ų.	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 <sub>N</sub> )	@ ambient temperature	Inductance (L <sub>N</sub> )	Resistance (R <sub>DC</sub> )	Α	В	н	Weight
		[A]	[°C]	[mH]	[mOhm]	[mm]	[mm]	[mm]	(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	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	ų.	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	ų.	1.1	40	15.0	420	10.0	12.5	20.0	8
RN218-1.4-02-10M	ې بې	1.4	40	10.0	330	10.0	12.5	20.0	8
RN218-1.7-02-6M8	ų.	1.7	40	6.8	180	10.0	12.5	20.0	8
RN218-2.2-02-3M3	ې بې	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	٧	1.5	40	10.0	250	15.0	12.5	29.3	26
RN222-2-02-6M8	٧	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	ين لا	2.5	40	5.6	86	15.0	12.5	34.3	38
RN232-4-02-3M3	4	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	ų.	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**

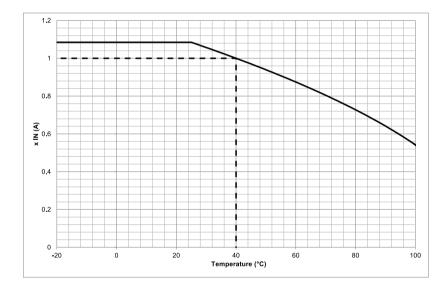
Up-to-date inventory levels for global distributors is available at <a href="https://products.schaffner.com/stock">https://products.schaffner.com/stock</a>

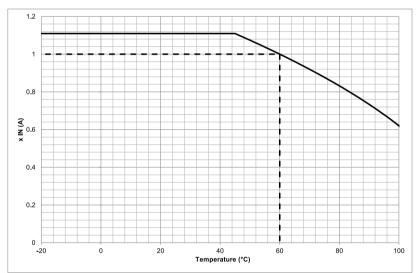


## Thermal Derating

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.

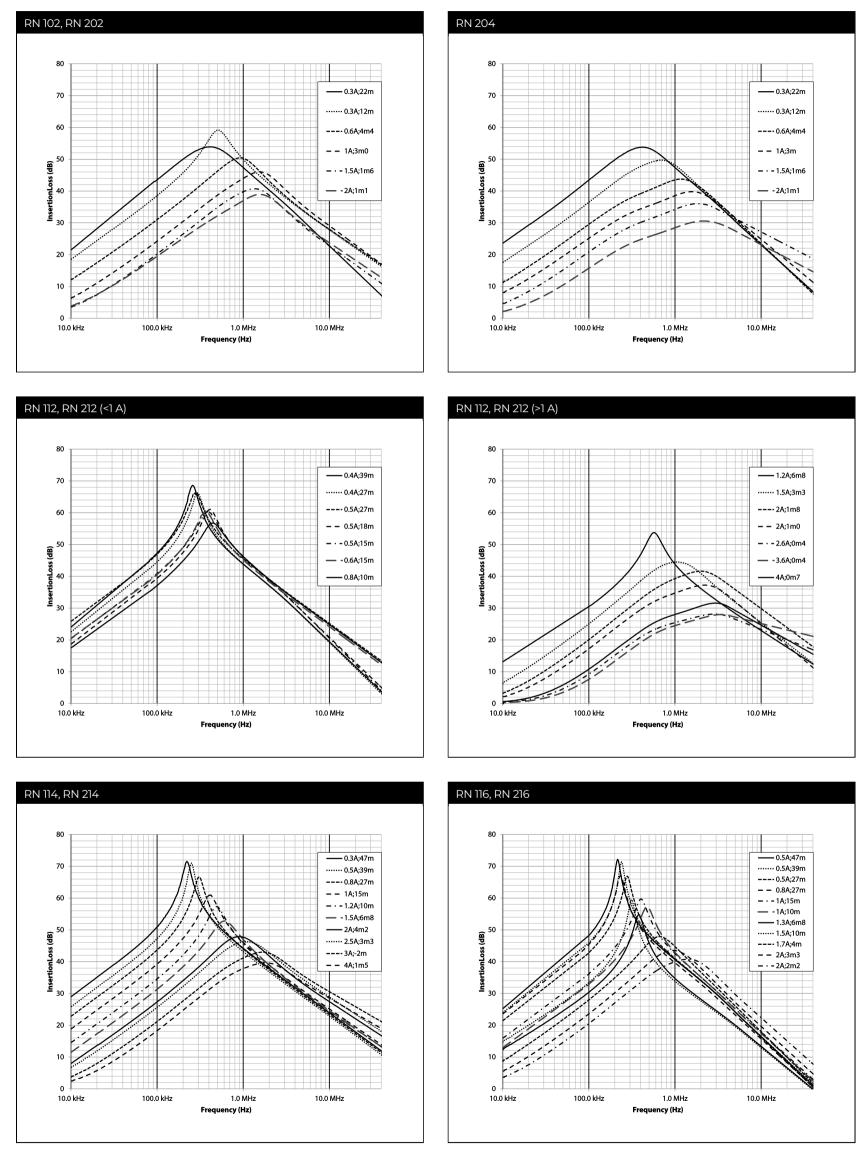


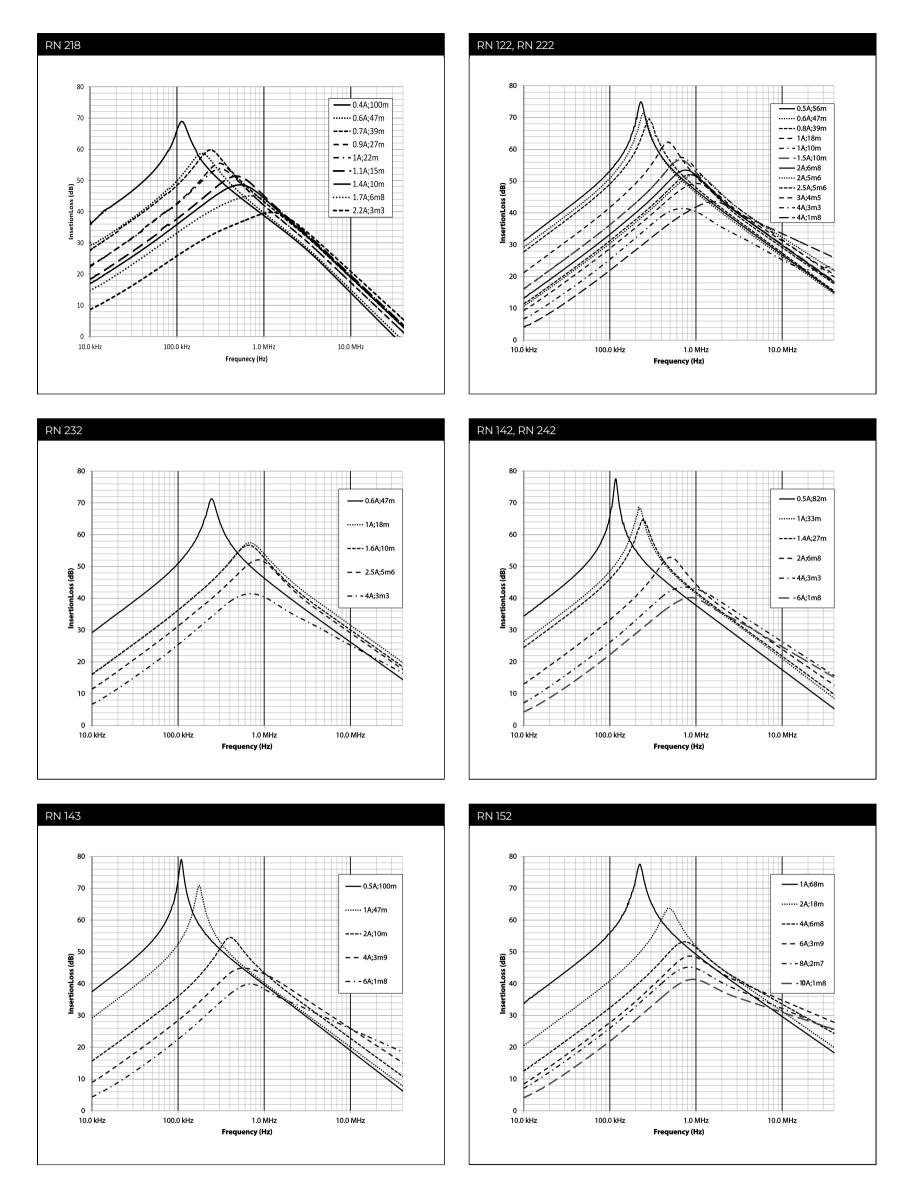


# Typical Attenuation/Resonance Frequency Characteristics

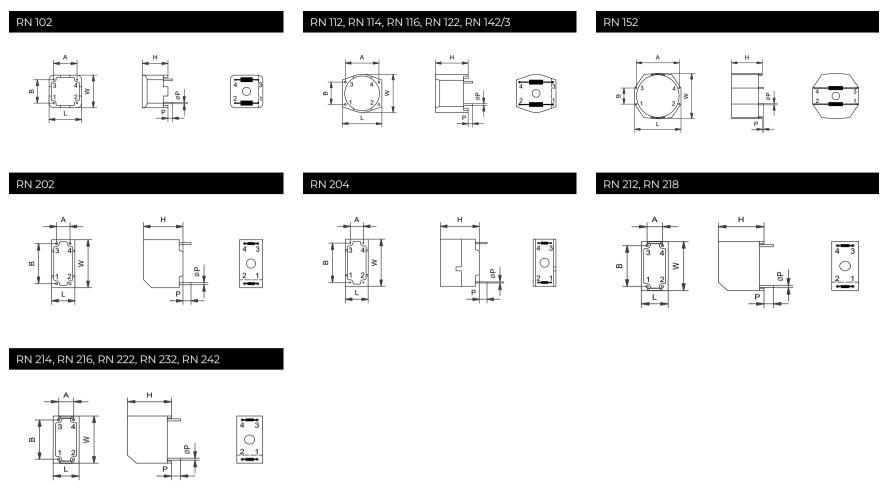
Per CISPR 17; 50  $\Omega$ /50  $\Omega$  asym

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





# **Mechanical Data**



Pin material: Steel (base), Cu (under plating), Sn (final plating  $6\mu m$ )

# Dimensions

	А	В	н	L	w	Р	ØP
	(±0.6 mm)	(±0.6 mm)	(±0.3 mm)	(±0.3 mm)	(±0.3 mm)	(±0.5 mm)	(±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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RN122-0.8-02-39M RN116-1.5-02-10M RN116-2-02-2M2 RN102-0.3-02-12M RN114-1.2-02-10M RN116-1-02-10M RN216-0.5-02-39M RN242-0.5-02-82M RN222-0.5-02-56M RN142-6-02-1M8 RN143-0.5-02-100M RN212-1.5-02-3M3 RN212-2-02-1M8 RN214-0.5-02-39M RN214-0.5-02-56M RN216-1-02-10M RN212-0.5-02-18M RN212-4-02-0M7 RN214-0.3-02-47M RN216-0.5-02-47M RN202-1.5-02-1M6 RN212-0.4-02-39M RN212-2-02-1M0 RN216-1.3-02-6M8 RN202-0.6-02-4M4 RN212-0.5-02-15M RN202-0.3-02-12M RN116-0.5-02-47M RN152-10-02-1M8 RN202-1-02-3M0 RN216-1.7-02-4M0 RN222-1-02-33M RN222-0.8-02-39M RN214-1.5-02-6M8 RN222-2-02-6M8 RN242-1-02-33M RN232-2.5-02-5M6 RN152-6-02-3M9 RN112-4-02-0M7 RN116-1.7-02-4M0 RN142-1-02-33M RN143-1-02-47M RN122-2-02-5M0 RN143-6-02-1M8 RN242-6-02-1M8 RN222-0.6-02-47M RN216-0.8-02-27M RN232-0.6-02-47M RN242-1.4-02-27M RN112-0.5-02-18M RN216-2-02-3M3 RN222-2.5-02-5M6 RN222-3-02-4M5 RN216-2-02-2M2 RN222-4-02-3M3 RN222-1.5-02-10M RN122-0.5-02-56M RN114-2-02-4M2 RN214-2.5-02-3M3 RN222-1-02-18M RN143-4-02-3M9 RN152-4-02-6M8 RN214-1-02-15M RN112-0.8-02-10M RN114-1.5-02-6M8 RN116-1.3-02-6M8 RN112-0.5-02-15M RN114-0.8-02-27M RN214-2-02-2M2 RN216-0.5-02-27M RN232-1-02-18M RN214-3-02-2M0 RN122-1.5-02-10M RN212-0.6-02-15M RN122-4-02-1M8 RN212-0.4-02-27M RN204-0.3-02-12M RN204-0.3-02-22M RN202-2-02-1M1 RN214-0.8-02-27M RN112-0.4-02-39M RN114-2.5-02-3M3 RN114-0.5-02-39M RN116-2-02-3M3 RN116-1-02-15M RN142-2-02-6M8 RN242-4-02-3M3 RN112-0.4-02-27M RN112-1.5-02-3M3 RN114-3-02-2M0 RN116-0.5-02-39M RN142-0.5-02-82M RN114-4-02-1M5 RN143-2-02-10M RN142-4-02-3M3 RN204-0.6-02-4M4 RN212-2.6-02-0M4 RN212-3.6-02-0M4 RN122-3-02-4M5 RN122-1-02-18M