

## End of life notification

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**Notification No.:** EOL20170113HU

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**Affected products:**

RN choke series in the material number range 800000 to 809999 opened before 2016.

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**Description:**

With the freshly introduced new RN series, the old part numbers (see table in chapter appendix) are going to be obsolete.

All types can be exchanged, in regards to voltage level, mechanical dimensions and inductivity/current ratings, with the new part numbers attached.

For further details of the new product series please refer to the datasheet present on the internet. (Link: <http://www.schaffner.com/products/download/product/datasheet/rn-series-common-mode-choke-new/>)

We kindly ask our customers to switch over to the new part numbers.

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**Introduction date:**

Final orders can be placed until 30<sup>th</sup> of June 2017.

The last delivery of the products is the 31<sup>st</sup> of December 2017.

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**Quality assurance measures:**

All Schaffner entities involved in this change act according to the rigorous processes defined under the ISO 9001:2008 program, or exceeding Schaffner standards for outstanding quality.

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**Questions and feedback:**

For questions and feedback regarding the change described above, please get in touch with your local Schaffner office or authorized Schaffner representative.

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**Issued by:**

Schaffner Group  
Product Management  
Division EMC

**Date of announcement:**

January 13, 2017

**Appendix:**

<b>EOL candidate SAP-No</b>	<b>EOL candidate Designation</b>		<b>New SAP-No</b>	<b>New Designation</b>
800462	RN102-0.3-02	->	816484	RN102-0.3-02-12M
800445	RN102-0.6-02	->	816485	RN102-0.6-02-4M4
800446	RN102-1-02	->	816487	RN102-1-02-3M0
800447	RN102-1.5-02	->	816486	RN102-1.5-02-1M6
800448	RN102-2-02	->	816488	RN102-2-02-1M1
800379	RN112-0.4-02	->	815692	RN112-0.4-02-39M
800464	RN112-0.5-02	->	816489	RN112-0.5-02-27M
800380	RN112-0.6-02	->	816490	RN112-0.6-02-15M
800381	RN112-0.8-02	->	816491	RN112-0.8-02-10M
800382	RN112-1.2-02	->	816493	RN112-1.2-02-6M8
800383	RN112-1.5-02	->	816494	RN112-1.5-02-3M3
800384	RN112-2-02	->	816495	RN112-2-02-1M8
800385	RN112-4-02	->	816496	RN112-4-02-0M7
800373	RN114-0.3-02	->	816497	RN114-0.3-02-47M
800374	RN114-0.5-02	->	816498	RN114-0.5-02-39M
800375	RN114-0.8-02	->	816499	RN114-0.8-02-27M
800465	RN114-1-02	->	816502	RN114-1-02-15M
800001	RN114-1.2-02	->	816500	RN114-1.2-02-10M
800376	RN114-1.5-02	->	816501	RN114-1.5-02-6M8
800377	RN114-2-02	->	816504	RN114-2-02-4M2
800378	RN114-2.5-02	->	816503	RN114-2.5-02-3M3
800003	RN114-3-02	->	816505	RN114-3-02-2M0
800467	RN114-4-02	->	816506	RN114-4-02-1M5
804641	RN122-0.5-2-56	->	816507	RN122-0.5-02-56M
800438	RN122-0.6-02	->	816508	RN122-0.6-02-47M
800439	RN122-0.8-02	->	816509	RN122-0.8-02-39M
800026	RN122-1-02	->	816511	RN122-1-02-18M
800508	RN122-1-02-1	->	816513	RN122-1-02-10M
800440	RN122-1.5-02	->	816510	RN122-1.5-02-10M
800441	RN122-2-02	->	816515	RN122-2-02-6M8
804639	RN122-2-02-1	->	816516	RN122-2-02-5M0
800442	RN122-2.5-02	->	816514	RN122-2.5-02-5M6
800443	RN122-3-02	->	816517	RN122-3-02-4M5
800444	RN122-4-02	->	816518	RN122-4-02-3M3
800927	RN122-4-02-1	->	816519	RN122-4-02-1M8
800861	RN142-0.5-02	->	816520	RN142-0.5-02-82M
800862	RN142-1-02	->	816522	RN142-1-02-33M
800863	RN142-1.4-02	->	816521	RN142-1.4-02-27M
800864	RN142-2-02	->	816523	RN142-2-02-6M8
800865	RN142-4-02	->	816524	RN142-4-02-3M3
800866	RN142-6-02	->	816525	RN142-6-02-1M8
800867	RN143-0.5-02	->	816526	RN143-0.5-02-100M
800868	RN143-1-02	->	816527	RN143-1-02-47M
800869	RN143-2-02	->	816528	RN143-2-02-10M
800870	RN143-4-02	->	816529	RN143-4-02-3M9
800871	RN143-6-02	->	816530	RN143-6-02-1M8
800872	RN152-1-02	->	816532	RN152-1-02-68M
800873	RN152-2-02	->	816533	RN152-2-02-18M
800874	RN152-4-02	->	816534	RN152-4-02-6M8
800875	RN152-6-02	->	816535	RN152-6-02-3M9
800876	RN152-8-02	->	816536	RN152-8-02-2M7
800877	RN152-10-02	->	816531	RN152-10-02-1M8



EOL candidate SAP-No	EOL candidate Designation		New SAP-No	New Designation
800463	RN202-0.3-02	->	816537	RN202-0.3-02-12M
800449	RN202-0.6-02	->	816538	RN202-0.6-02-4M4
800450	RN202-1-02	->	816540	RN202-1-02-3M0
800451	RN202-1.5-02	->	816539	RN202-1.5-02-1M6
800452	RN202-2-02	->	816541	RN202-2-02-1M1
800027	RN212-0.4-02	->	815697	RN212-0.4-02-39M
800034	RN212-0.5-02	->	816542	RN212-0.5-02-27M
800033	RN212-0.6-02	->	816543	RN212-0.6-02-15M
800032	RN212-0.8-02	->	816544	RN212-0.8-02-10M
800031	RN212-1.2-02	->	816545	RN212-1.2-02-6M8
800030	RN212-1.5-02	->	816546	RN212-1.5-02-3M3
800029	RN212-2-02	->	816547	RN212-2-02-1M8
800028	RN212-4-02	->	815702	RN212-4-02-0M7
800453	RN214-0.3-02	->	816548	RN214-0.3-02-47M
800454	RN214-0.5-02	->	816549	RN214-0.5-02-39M
800519	RN214-0.5-02-56	->	816550	RN214-0.5-02-56M
800455	RN214-0.8-02	->	816551	RN214-0.8-02-27M
800466	RN214-1-02	->	816554	RN214-1-02-15M
800456	RN214-1.2-02	->	816552	RN214-1.2-02-10M
800457	RN214-1.5-02	->	816553	RN214-1.5-02-6M8
800458	RN214-2-02	->	816556	RN214-2-02-4M2
804673	RN214-2-02-2.2	->	816557	RN214-2-02-2M2
800459	RN214-2.5-02	->	816555	RN214-2.5-02-3M3
800460	RN214-3-02	->	816558	RN214-3-02-2M0
800461	RN214-4-02	->	816559	RN214-4-02-1M5
804642	RN222-0.5-02-56	->	816560	RN222-0.5-02-56M
800430	RN222-0.6-02	->	816561	RN222-0.6-02-47M
800431	RN222-0.8-02	->	816562	RN222-0.8-02-39M
800432	RN222-1-02	->	816564	RN222-1-02-18M
804640	RN222-1-02-33	->	816565	RN222-1-02-33M
800433	RN222-1.5-02	->	816563	RN222-1.5-02-10M
800434	RN222-2-02	->	816567	RN222-2-02-6M8
800435	RN222-2.5-02	->	816566	RN222-2.5-02-5M6
800436	RN222-3-02	->	816568	RN222-3-02-4M5
800437	RN222-4-02	->	816569	RN222-4-02-3M3
800302	RN232-0.6-02	->	816570	RN232-0.6-02-47M
800299	RN232-1-02	->	816572	RN232-1-02-18M
800300	RN232-1.6-02	->	816571	RN232-1.6-02-10M
800298	RN232-2.5-02	->	816573	RN232-2.5-02-5M6
800301	RN232-4-02	->	816574	RN232-4-02-3M3
800891	RN242-0.5-02	->	816575	RN242-0.5-02-82M
800892	RN242-1-02	->	816577	RN242-1-02-33M
800893	RN242-1.4-02	->	816576	RN242-1.4-02-27M
800894	RN242-2-02	->	816578	RN242-2-02-6M8
800895	RN242-4-02	->	816579	RN242-4-02-3M3
800896	RN242-6-02	->	816580	RN242-6-02-1M8








# Current-compensated chokes






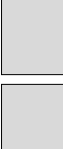

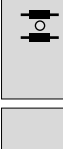
# RN Series

- 0.3 to 10A ratings
- 0.7 to 100mH inductances (dual choke configurations)
- 100kHz-3MHz common-mode resonance frequencies
- 11 different PCB-mount housing sizes
- Nennströme zwischen 0.3 und 10A
- Induktivitäten zwischen 0.7 und 100mH (Konfigurationen mit zwei Wicklungen)
- Gleichtakt-Resonanzfrequenzen zwischen 100kHz und 3MHz
- 11 verschiedene Gehäuse für Leiterplatten-Montage
- Courant de service entre 0,3 et 10A
- Inductance de 0,7 à 100mH (selfs monophasées)
- Fréquence de résonance en mode commun de 100kHz à 3MHz
- 11 dimensions de boîtier pour montage sur carte électronique



**Choke selection table** Choose the choke **RN ?xx** offering the required current rating and inductance characteristics. ? determines package style: insert 1 for a lower profile , 2 for a taller component  with a smaller footprint. Example: RN 122-1/02 is a lower profile choke.

Choke type ? (1 =  2 =  )	Nominal current A@40°C	Inductance L* mH/path	Circuit symbol	R <sup>i</sup> mΩ/ path	Weight approx.g  / 
RN ?02-0.3/02	0.3	12		1275	2/3
RN ?02-0.6/02	0.6	4.4		385	2/3
RN ?02-1/02	1	3		205	2/3
RN ?02-1.5/02	1.5	1.6		100	2/3
RN ?02-2/02	2	1.1		70	2/3
RN ?12-0.4/02	0.4	39			1460
RN ?12-0.5/02	0.5	27	1250		5/6
RN ?12-0.6/02	0.6	15	465		5/6
RN ?12-0.8/02	0.8	10	370		5/6
RN ?12-1.2/02	1.2	6.8	245		5/6
RN ?12-1.5/02	1.5	3.3	135		5/6
RN ?12-2/02	2	1.8	75		5/6
RN ?12-4/02	4	0.7	27		5/6
RN ?14-0.3/02	0.3	47		1750	9/12
RN ?14-0.5/02	0.5	39		810	9/12
RN ?14-0.8/02	0.8	27		500	9/12
RN ?14-1/02	1	15		375	9/12
RN ?14-1.2/02	1.2	10		200	9/12
RN ?14-1.5/02	1.5	6.8		130	9/12
RN ?14-2/02	2	4.2		102	9/12
RN ?14-2.5/02	2.5	3.3		72	9/12
RN ?14-3/02	3	2		55	9/12
RN ?14-4/02	4	1.5		35	9/12

Choke type ? (1 =  2 =  )	Nominal current A@40°C	Inductance L* mH/path	Circuit symbol	R <sup>i</sup> mΩ/ path	Weight approx.g  / 
RN ?22-0.6/02	0.6	47		1180	17/21
RN ?22-0.8/02	0.8	39		1000	17/21
RN ?22-1/02	1	18		610	17/21
RN ?22-1.5/02	1.5	10		220	17/21
RN ?22-2/02	2	6.8		147	17/21
RN ?22-2.5/02	2.5	5.6		105	17/21
RN ?22-3/02	3	4.5		80	17/21
RN ?22-4/02	4	3.3		45	17/21
RN ?42-0.5/02	0.5	82		2700	32
RN ?42-1/02	1	33		810	32
RN ?42-1.4/02	1.4	27		500	32
RN ?42-2/02	2	6.8		190	32
RN ?42-4/02	4	3.3		66	32
RN ?42-6/02	6	1.8	20	32	
RN 143-0.5/02	0.5	100		2900	33
RN 143-1/02	1	47		880	33
RN 143-2/02	2	10		230	33
RN 143-4/02	4	3.9		58	33
RN 143-6/02	6	1.8		20	33
RN 152-1/02	1	68		1300	54
RN 152-2/02	2	18		350	54
RN 152-4/02	4	6.8		87	54
RN 152-6/02	6	3.9		41	54
RN 152-8/02	8	2.7		22	54
RN 152-10/02	10	1.8		14	54

## Environmental ratings

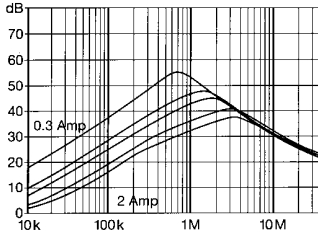
Maximum operating voltage: 250V at 40°C  
 High potential test voltage winding-to-winding at 25°C: 1500VAC, 1 minute, guaranteed 1500V, 50Hz, 2 sec, factory test  
 winding-to-housing at 25°C: 4000VAC, 1 minute, guaranteed  
 Surge current at 10msec: 20 x I<sub>nominal</sub> at 25°C  
 Power operating frequency: DC to 1kHz at 40°C  
 Operating temperature: -40°C to +125°C  
 Storage temperature: -40°C to +125°C  
 Climatic class per IEC 68: 40/125/56  
 Flammability: UL94V0

## Test conditions

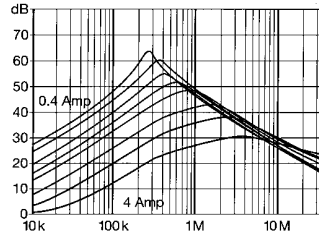
\* Measuring frequency: 10kHz; 5mA < 16μH; 500μA > 16μH < 160μH; 50μA > 160μH < 16mH; 50mV > 16mH < 160mH; inductance tolerance +50%, -30%  
 † Resistance: tolerance max. ±15% at 25°C; ≤ 20mΩ 1A; > 20mΩ ≤ 200mΩ 100mA; > 200mΩ ≤ 2Ω 10mA  
 Electrical characteristics at 25°C ±2°C

## Typical attenuation/resonance frequency characteristics

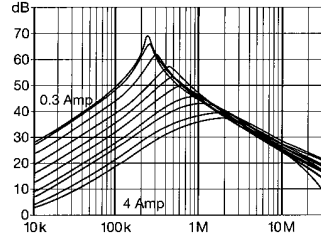
### RN ?02



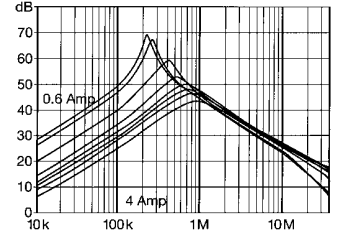
### RN ?12



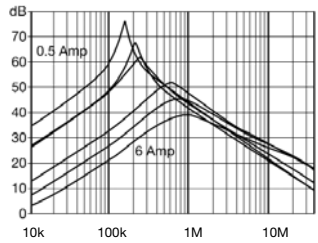
### RN ?14



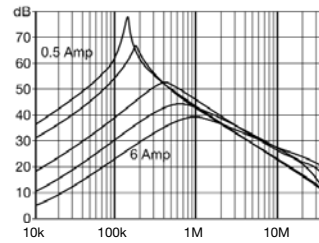
### RN ?22



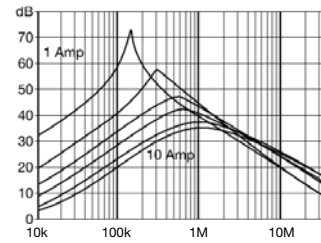
### RN ?42



### RN 143



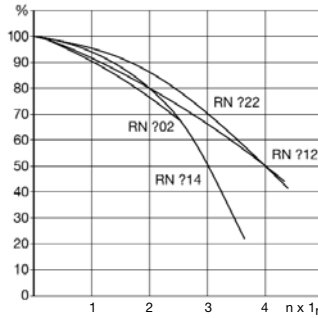
### RN 152



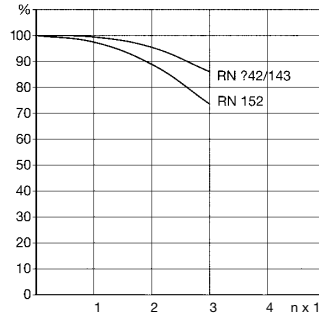
## Typical saturation characteristics

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

### RN ?02/?12/?14/?22



### RN ?42/143/152



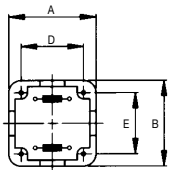
## Mechanical data

Choke	RN 102	RN 112	RN 114	RN 122	RN 202	RN 212	RN 214	RN 222	RN 142 RN 143	RN 242	RN 152	Tol.* mm
A	14	17.7	22.5	28	18.2	18	23	31	33.1	31	43	± 0.3
B	14	17.1	21.5	27	8.8	12.5	15.5	18	32.5	18	41.8	± 0.3
C	9	12.6	13.2	16.5	13.5	20	25	29.3	19.7	34.3	25	± 0.3
D	10	15	20.1	25	15.21	15	10	12.5	30	12.5	40	± 0.2
E	10	12.5	15	5.08	10	12.5	15	20	15	15	15	± 0.2
F		4 ± 0.6		4.5		4		4.3	4.2	4.5		± 0.5
G	0.6					0.8					1.2	± 0.1

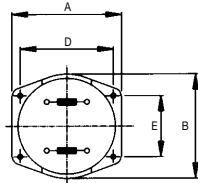
Dimensions in mm; 1 inch = 25.4mm

\* Measurements share this common tolerance unless otherwise stated

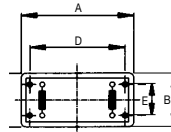
## Bottom



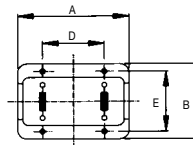
RN 102



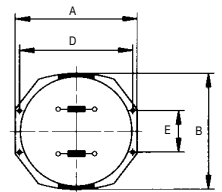
RN 112, 114, 122, 142, 143



RN 202



RN 212, 214, 222, 242



RN 152

## Side

