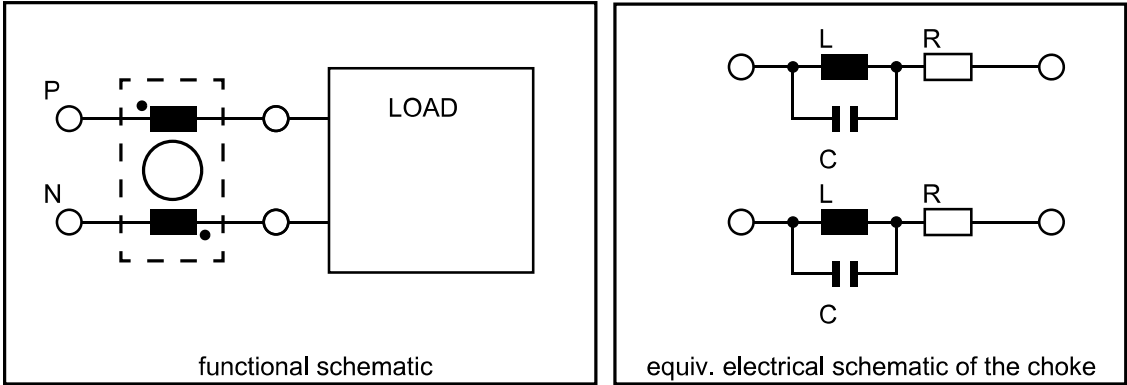


Application Type #1: Symmetrical/Differential Mode



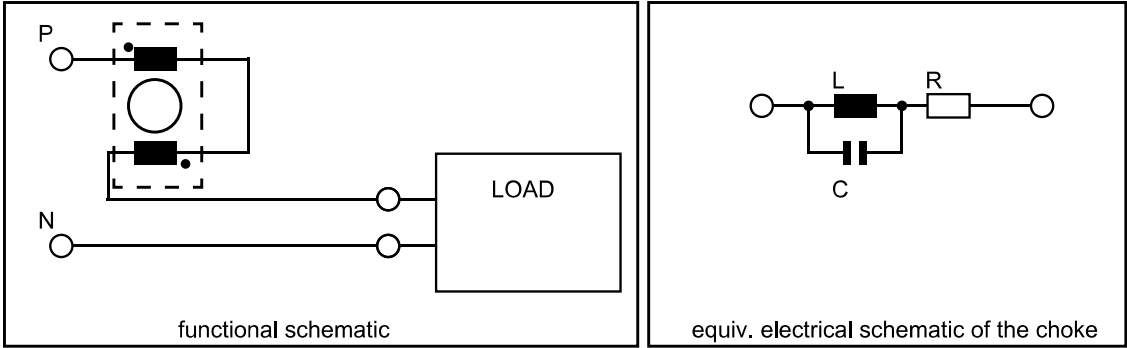
Choke Selection Table

Choke	Current (I _N)	Inductance	Resistance	typ. Resonance Frequency	typ. Attenuation	typ. parasitic Capacitance
	@ 40°C ambient	(L)	(R)	f ₀	@ f ₀	C _p
	[A]	[μH]	[mOhm]	[MHz]	[dB]	[pF]
RS 512-0.5-02 / RS 612-0.5-02	0.5	200	650	8	44.9	1.98
RS 512-1-02 / RS 612-1-02	1	55	130	20	37.3	3.83
RS 512-2-02 / RS 612-2-02	2	14	30	25	25.3	3.31
RS 512-4-02 / RS 612-4-02	4	3	10	33	10.7	7.75
RS 514-0.5-02 / RS 614-0.5-02	0.5	480	800	7	50.6	8.87
RS 514-1-02 / RS 614-1-02	1	120	200	11	42.7	7.39
RS 514-2-02 / RS 614-2-02	2	30	50	16	32.5	3.66
RS 514-4-02 / RS 614-4-02	4	8	20	22	25.6	3.43
RS 622-0.5-02	0.5	900	1250	2	54.9	12.64
RS 622-1-02	1	225	300	4	46	6.33
RS 622-2-02	2	55	70	7	33.2	9.40
RS 622-4-02	4	15	30	13	28.7	4.86

Test conditions: Measuring frequency: 10 kHz; 50 mV; Inductance tolerance: +50%, -30%; Resistance tolerance: ±15% @ 25°C; Electrical characteristics @ 25°C: ±2°C

For mechanical tolerances refer to mechanical data section.

Application Type #2: Symmetrical/Differential Mode



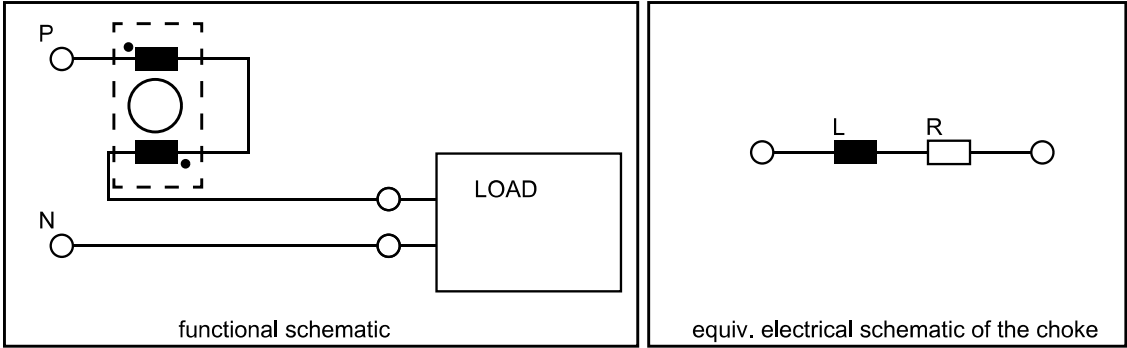
Choke Selection Table

Filter	Current (I _N) @ 40°C ambient [A]	Inductance (L) [μH]	Resistance (R) [mOhm]	calc. Resonance Frequency F ₀ [MHz]	typ. Attenuation @ F ₀ [dB]	typ. parasitic Capacitance C _p [pF]
RS 512-0.5-02 / RS 612-0.5-02	0.5	800	1300	2	50	7.9
RS 512-1-02 / RS 612-1-02	1	220	260	8	47	4.8
RS 512-2-02 / RS 612-2-02	2	56	60	17	36	3.0
RS 512-4-02 / RS 612-4-02	4	12	20	27	22	2.9
RS 514-0.5-02 / RS 614-0.5-02	0.5	1920	1600	2.5	60	7.0
RS 514-1-02 / RS 614-1-02	1	480	400	5.5	53	6.6
RS 514-2-02 / RS 614-2-02	2	120	100	10	42	4.4
RS 514-4-02 / RS 614-4-02	4	32	40	18	34	5.8
RS 622-0.5-02	0.5	3600	2500	0.6	63	11.7
RS 622-1-02	1	900	600	1.5	55	9.3
RS 622-2-02	2	220	140	3	33	12.8
RS 622-4-02	4	60	60	5	38	5.2

Test conditions: Measuring frequency: 10 kHz; 50 mV; Inductance tolerance: +50%, -30%; Resistance tolerance: ±15% @ 25°C; Electrical characteristics @ 25°C: ±2°C

For mechanical tolerances refer to mechanical data section.

Application Type #3: Energy Storage



Choke Selection Table

Filter	Current (I _N) @ 40°C ambient [A]	Inductance (L) [μH]	Resistance (R) [mOhm]	Energy E [μJ]
RS 512-0.5-02 / RS 612-0.5-02	0.5	800	1300	100
RS 512-1-02 / RS 612-1-02	1	220	260	100
RS 512-2-02 / RS 612-2-02	2	56	60	100
RS 512-4-02 / RS 612-4-02	4	12	20	100
RS 514-0.5-02 / RS 614-0.5-02	0.5	1960	1600	240
RS 514-1-02 / RS 614-1-02	1	480	400	240
RS 514-2-02 / RS 614-2-02	2	120	100	240
RS 514-4-02 / RS 614-4-02	4	32	40	240
RS 622-0.5-02	0.5	3600	2500	450
RS 622-1-02	1	900	600	450
RS 622-2-02	2	220	140	450
RS 622-4-02	4	60	60	450

Test conditions: Measuring frequency: 10 kHz; 50 mV; Inductance tolerance: +50%, -30%; Resistance tolerance: ±15% @ 25°C; Electrical characteristics @ 25°C: ±2°C

For mechanical tolerances refer to mechanical data section.

Product selector

RS XXX-YY-ZZ

Terminal-Type (-02 Rigid Pin Connection)

Rated Current I_N (A)

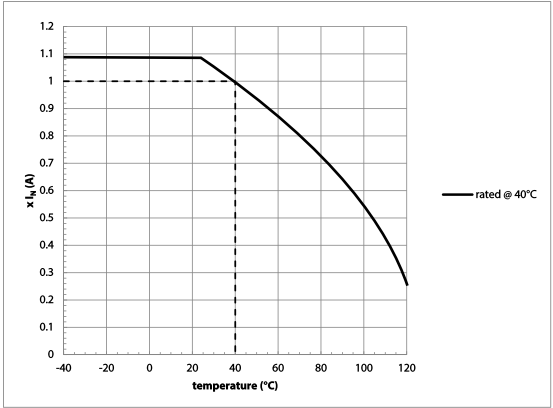
Size (12 to 22)

Orientation (5 = horizontal; 6 = vertical)

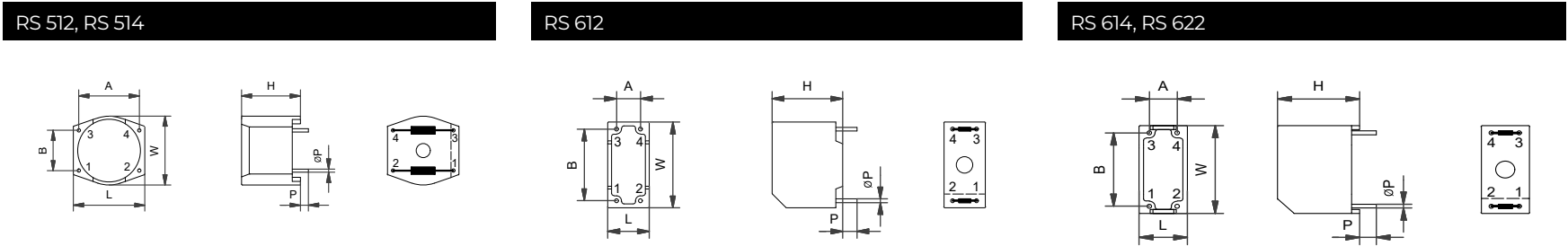
Familyname

Thermal Derating

If higher ambient temperatures than the specified apply, the nominal current needs to be reduced according to the graph below.



Mechanical Data



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

Dimensions

	A (±0.6 mm)	B (±0.6 mm)	H (±0.3 mm)	L (±0.3 mm)	W (±0.3 mm)	P (±0.5 mm)	ØP (±0.1 mm)	weight [g]
RS 512	15.0 mm	10.0 mm	12.6 mm	17.7 mm	17.1 mm	4.0 mm	0.8 mm	6
RS 514	20.1 mm	12.5 mm	13.2 mm	22.5 mm	21.5 mm	4.0 mm	0.8 mm	11
RS 612	10.0 mm	15.0 mm	20.0 mm	12.5 mm	18.0 mm	4.0 mm	0.8 mm	9
RS 614	12.5 mm	10.0 mm	25.0 mm	15.5 mm	23.0 mm	4.0 mm	0.8 mm	15
RS 622	15.0 mm	12.5 mm	29.3 mm	18.0 mm	31.0 mm	4.3 mm	0.8 mm	30

Please visit www.schaffner.com to find more details on filter connections.

Headquarters, Global
Innovation and
Development

Switzerland
Schaffner Group
Industrie Nord
Nordstrasse 5
4542
Luterbach
+41 32 681 66 26
info@schaffner.com

To find your local partner within
Schaffner's global network [schaffner.com](https://www.schaffner.com)

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Sales and Application
Centers

Finland
Schaffner Oy
Lohjanharjuntie 1109
08500
Lohja
+ 358 50 468 72 84
finlandsales@schaffner.com

France
Schaffner EMC S.A.S.
16-20 Rue Louis Rameau
95875
Bezons
+33 1 34 34 30 60
francesales@schaffner.com

Germany
Schaffner Deutschland GmbH
Ohiostr. 8
76149
Karlsruhe
+49 721 56910
germanysales@schaffner.com

Italy
Schaffner EMC S.r.l.
Via Ticino, 30
20900
Monza (MB)
+39 335 120 44 32
italysales@schaffner.com

Japan
Schaffner EMC K.K.
ISM Sangenjaya 7F
1-32-12 Kamiuma Setagaya-ku
154-0011
Tokyo
+81 3 5712 3650
japansales@schaffner.com

Singapore
Schaffner EMC Pte Ltd.
Blk 3015A Ubi Road 1 #05-09 Kampong Ubi
Industrial Estate
408705
Singapore
+65 63773283
singaporesales@schaffner.com

Sweden
Schaffner EMC AB
Östermalmströg 1
114 42
Stockholm
+46 8 5050 2425
swedensales@schaffner.com

Switzerland
Schaffner EMV AG
Industrie Nord
Nordstrasse 5
4542
Luterbach
+41 32 681 66 26
switzerlandsales@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
+91 8067935355
indiasales@schaffner.com

United Kingdom
Schaffner Ltd.
Suite 1 Oakmede Place
Terrace Road
RG42 4JF
Binfield
+44 118 9770070
schaffner.uksales@te.com

United States
Schaffner EMC Inc.
52 Mayfield Avenue
Edison, New Jersey
+1 732 225 9533
usasales@schaffner.com

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