

RT Series

	Convection cooling nominal current @ 60° C[A]	*Forced cooling 3 m/s nominal current @ 60° C[A]	Inductance Ln @25° C 10kHz	Resistance @25° C	***Ø Pin	Weight
			[mH/path]	[mΩ/path]	±0.1 ØP [mm]	[g]
Horizontal 2-line						
RT8122-6-10M0	6	9.5	10	33	1.1	80
RT8122-8-8M0	8	12.5	8	21	1.3	80
RT8122-10-6M0	10	16	6	16	1.4	80
RT8122-12-5M0	12	19	5	14	1.5	100
RT8122-16-4M0	16	27	4	10	1.8	110
RT8122-20-3M0	20	32	3	7	2	160
RT8122-25-2M5	25	40	2.5	4.6	2.2	140
RT8122-32-1M5	32	51	1.5	3.4	2.4	200
RT8122-40-1M2	40	64	1.2	2.2	2.8	210
RT8122-50-1M0	50	80	1	1.7	2x2.2	270
RT8122-63-0M5	63	100	0.5	1.1	2x2.2	260
RT8122-85-0M4	85	135	0.4	0.61	2x3.0	330
Vertical 2-line						
RT8522-6-10M0	6	9.5	10	33	1.1	70
RT8522-8-8M0	8	12.5	8	21	1.3	80
RT8522-10-6M0	10	16	6	16	1.4	80
RT8522-12-5M0	12	19	5	14	1.5	90
RT8522-16-4M0	16	27	4	10	1.8	110
RT8522-20-3M0	20	32	3	7	2	150
RT8522-25-2M5	25	40	2.5	4.4	2.2	160
RT8522-32-1M5	32	51	1.5	3.4	2.4	210
RT8522-40-1M2	40	64	1.2	2.2	2.8	220
RT8522-50-1M0	50	80	1	1.7	2x2.2	280
RT8522-63-0M5	63	100	0.5	1	2x 2.2	270
RT8522-85-0M4	85	135	0.4	0.7	2x3.0	340
Horizontal 3-line						
RT8132-6-6M0	6	9.5	6	27	1.1	80
RT8132-8-4M8	8	12.5	4.8	17	1.3	90
RT8132-10-4M0	10	16	4	15	1.5	110
RT8132-12-3M6	12	19	3.6	12	1.6	120
RT8132-16-3M0	16	27	3	8	1.8	170
RT8132-20-2M5	20	32	2.5	7	2.1	190
RT8132-25-1M5	25	40	1.5	3.5	2.4	240
RT8132-32-1M2	32	51	1.2	2.5	2.4	240
RT8132-40-0M7	40	64	0.7	1.9	2x1.9	270
RT8132-50-0M5	50	80	0.5	1.2	2x2.2	290
RT8132-63-0M3	63	100	0.3	0.7	2x2.6	300
RT8132-85-0M2	85	135	0.2	0.5	2x3.0	360
Vertical 3-line						
RT8532-6-6M0	6	9.5	6	27	1.1	90
RT8532-8-4M8	8	12.5	4.8	17	1.3	90
RT8532-10-4M0	10	16	4	15	1.5	110
RT8532-12-3M6	12	19	3.6	12	1.6	120
RT8532-16-3M0	16	27	3	8	1.8	160
RT8532-20-2M5	20	32	2.5	7	2.1	190
RT8532-25-1M5	25	40	1.5	3.5	2.4	250
RT8532-32-1M2	32	51	1.2	2.5	2.4	250
RT8532-40-0M7	40	64	0.7	1.9	2x1.9	290
RT8532-50-0M5	50	80	0.5	1.2	2x2.2	290
RT8532-63-0M3	63	100	0.3	0.8	2x2.6	310
RT8532-85-0M2	85	135	0.2	0.5	2x3.0	370

Test conditions: Inductance tolerance: +50%, –30%; Resistance tolerance: +15% @ 25°C; Electrical characteristics @ 25°C: ±2°C

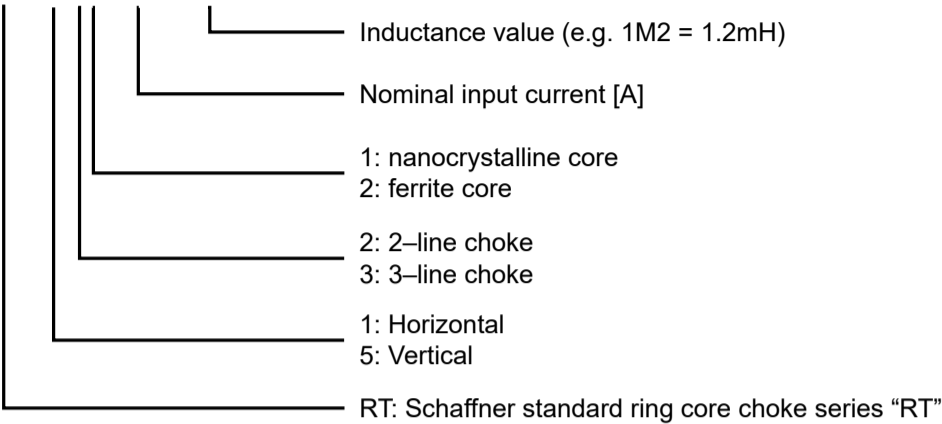
* typical current for forced cooling with 3 m/s. Due to the possible turbulences and degradation of the air stream within an equipment please consider thermal validation.

** typical stray inductance, max is 0.1% of Ln

*** Length of pin (Dimension P) is always 5.5 mm ± 1

Product selector

RT8xxx-xx-xMx



Examples: RT8532-16-3M0: Vertical 3-line choke for 16 A, with 3 mH ; RT8122-20-3M0: Horizontal 2-line choke for 20 A, with 3 mH

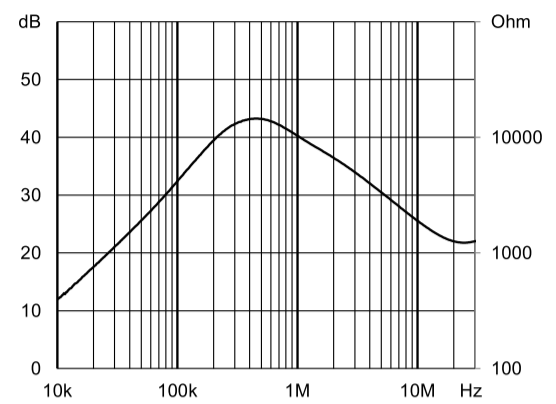
Distribution Inventory

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

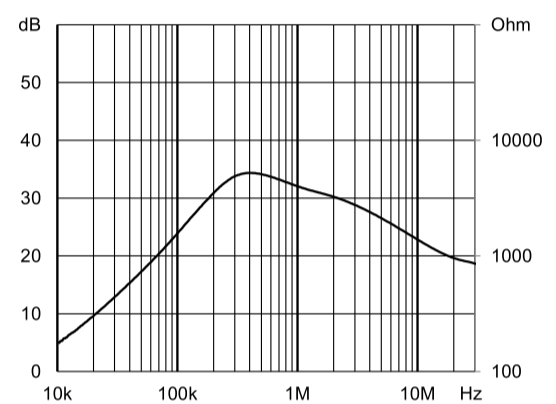


Per CISPR 17; 50 Ω /50 Ω asym

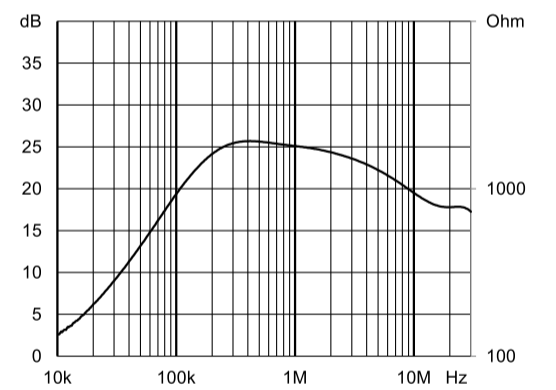
RT8x22-10-6M0



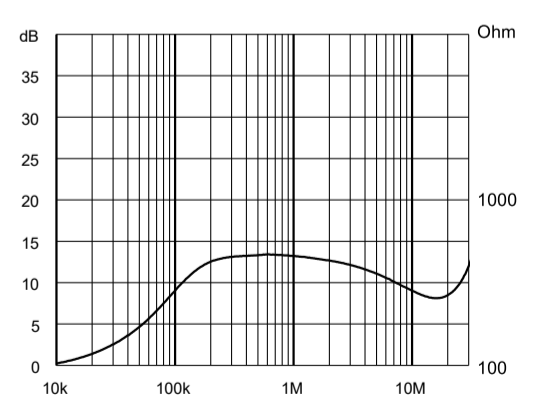
RT8122-20-3M0



RT8x22-40-1M2



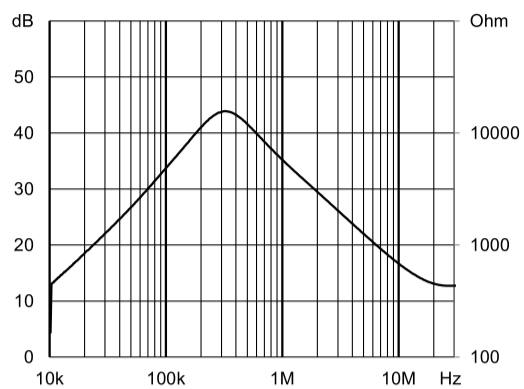
RT8x22-85-0M4



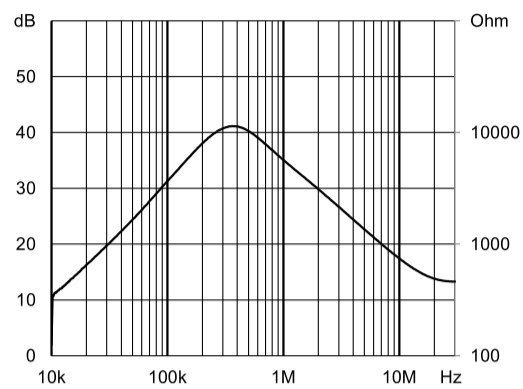
Typical Choke Attenuation And Impedance - 3-Line Versions

Per CISPR 17; 50 Ω /50 Ω asym

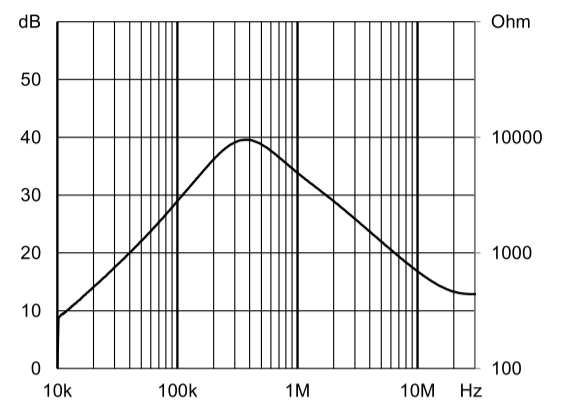
RT8x32-6-6M0



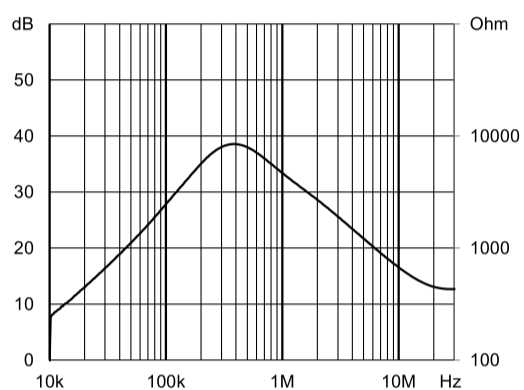
RT8x32-8-4M8



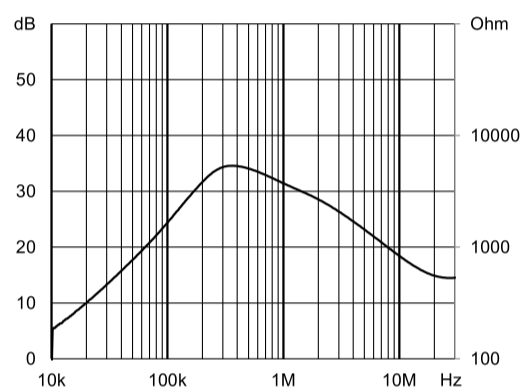
RT8x32-10-4M0



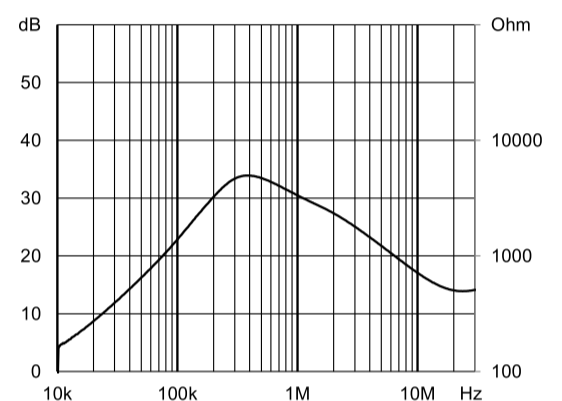
RT8x32-12-3M6



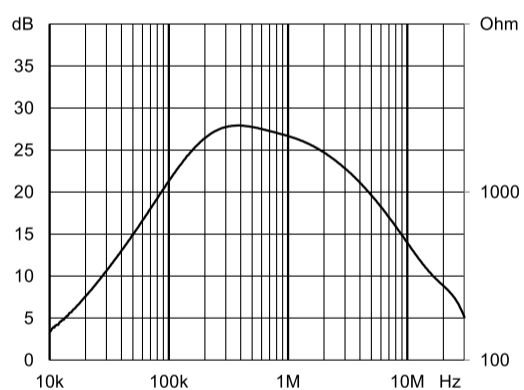
RT8x32-16-3M0



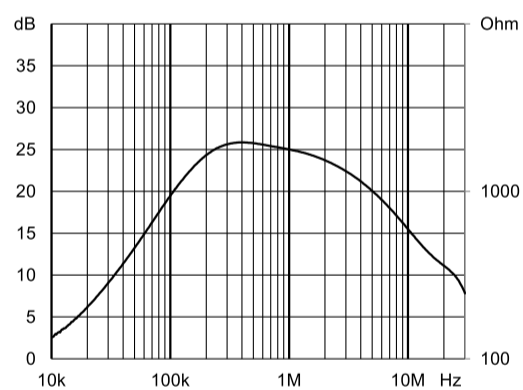
RT8x32-20-2M5



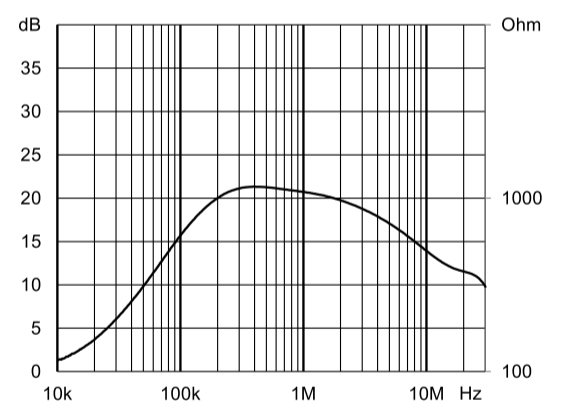
RT8x32-25-1M5



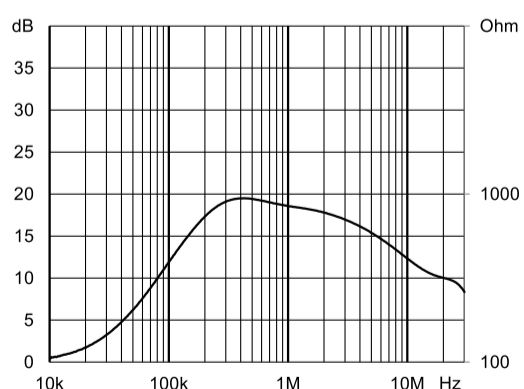
RT8x32-32-1M2



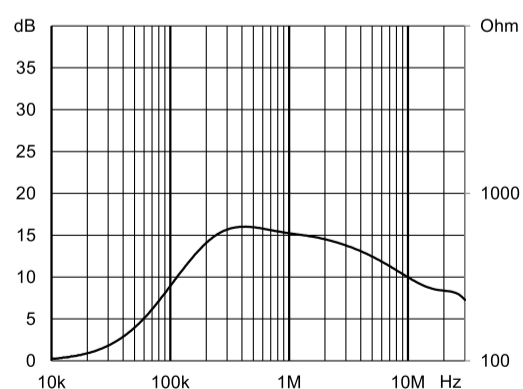
RT8x32-40-0M7



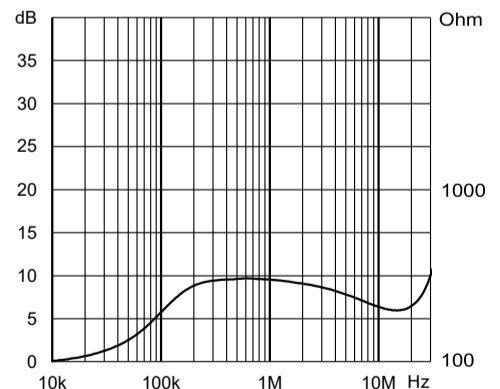
RT8x32-50-0M5



RT8x32-63-0M3

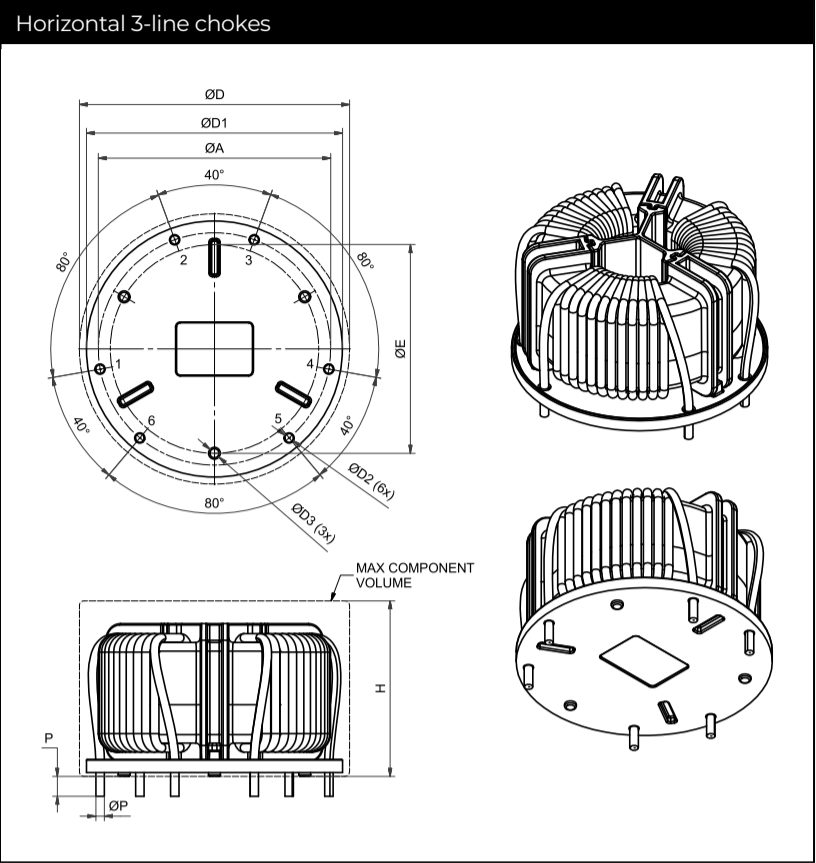
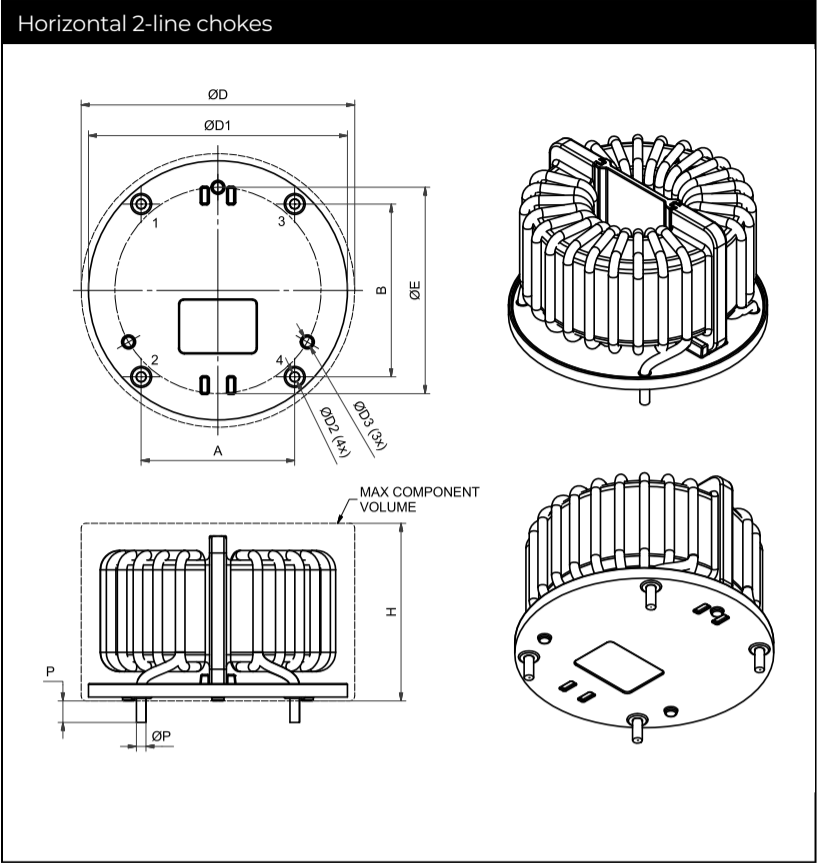


RT8x32-85-0M2



Mechanical Data: Horizontal Chokes (2-line And 3-line) 6A - 20A

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



Dimensions

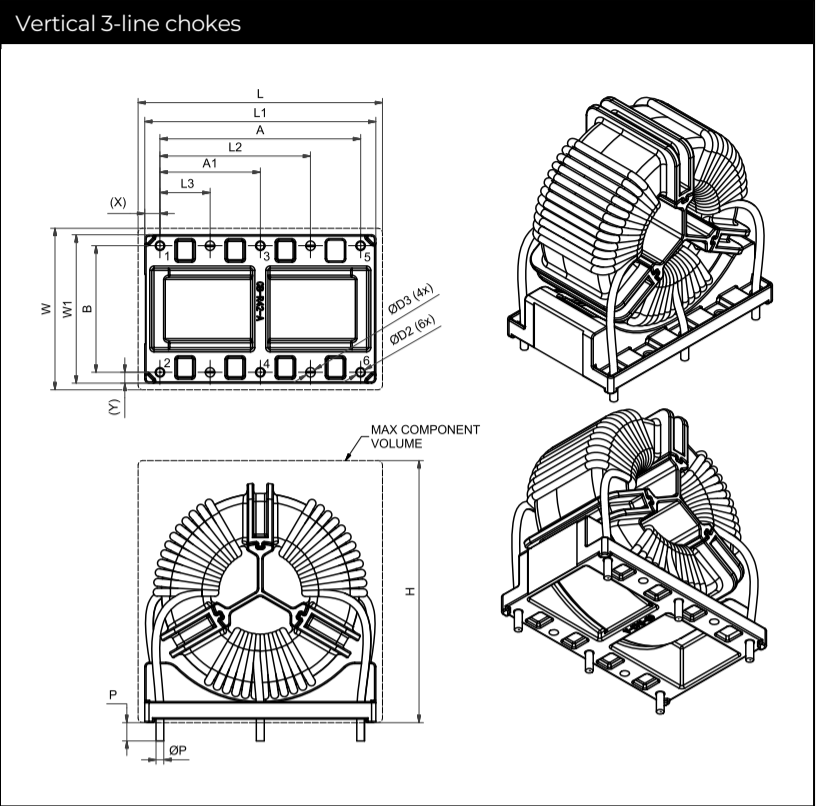
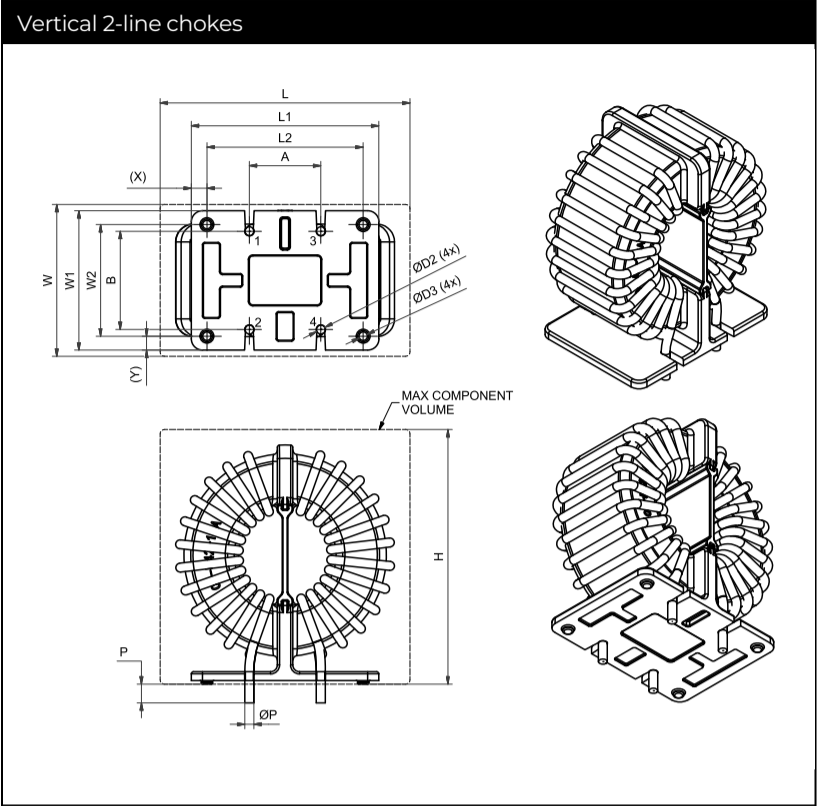
	A	B	ØD	H	ØD1	ØD2	ØD3	ØE
	(±0.5)	(±0.5)	(max)	(max)	(±0.5)			
2-Line Chokes								
RT8122-6-10M0, RT8122-8-8M0, RT8122-10-6M0	21	25	45	34	42	1.5	2.5	36
RT8122-12-5M0, RT8122-16-4M0	26	30	51	33	48	1.9	2.5	40
RT8122-20-3M0	32	36	57	37	54	2.1	2.5	43
3-Line Chokes								
RT8132-6-6M0, RT8132-8-4M8	38	-	46	34	43	1.4	2.5	35
RT8132-10-4M0,RT8132-12-3M6	44	-	51	33	48	1.7	2.5	40
RT8132-16-3M0, RT8132-20-2M5	49	-	57	37	54	2.3	2.5	44

Pin material: Copper (base), Sn (final plating typical thickness 0.15 mm; composition: Sn-1.2AG-4Cu or SN-3Cu-0.25Ni)

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

Mechanical Data: Vertical Chokes (2-line And 3-line) 6A - 20A

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



Dimensions

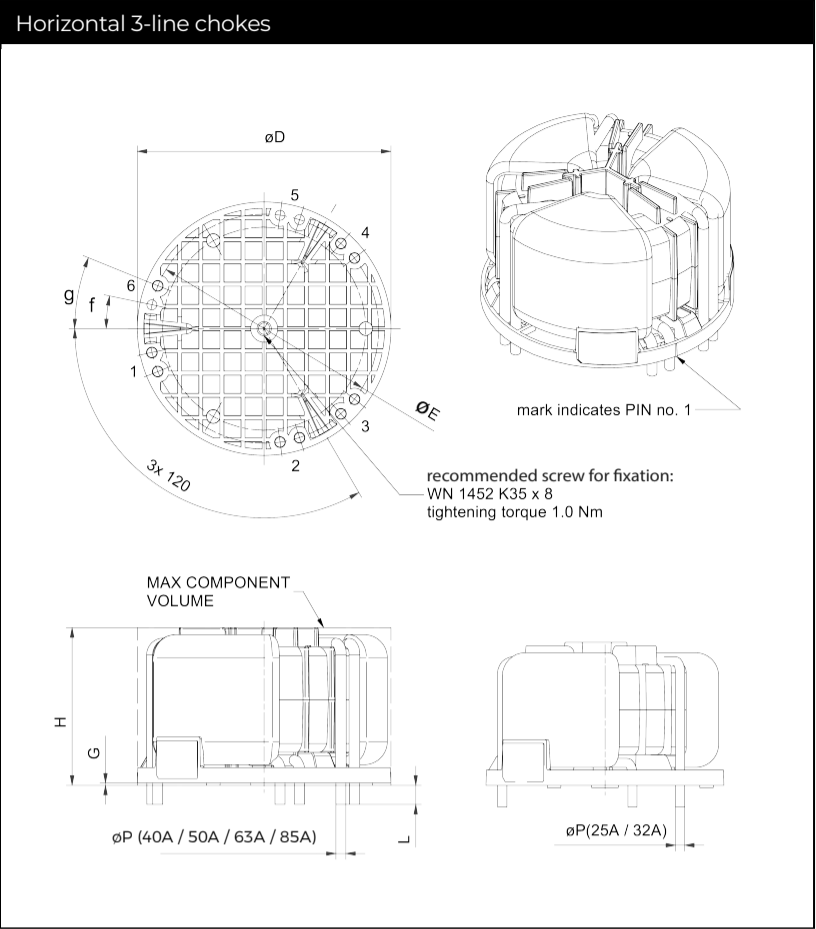
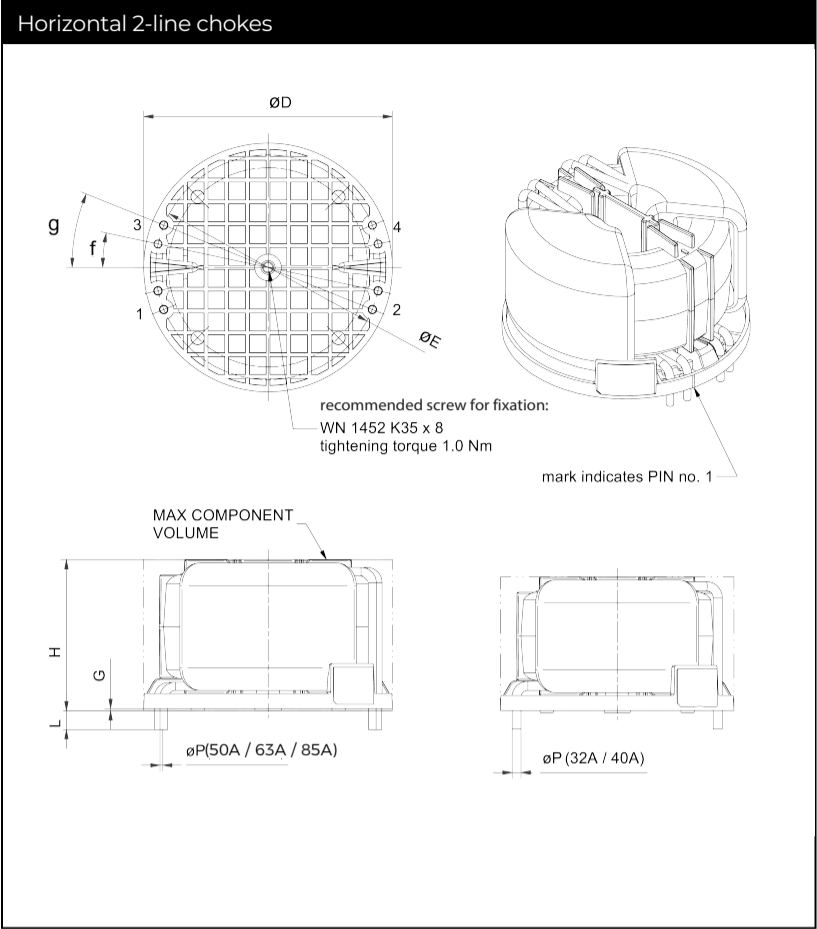
	A	A1	B	L	W	H	L1	L2	L3	W1	W2	ØD2	ØD3	X	Y
	(±0.5)	(±0.5)	(±0.5)	(max)	(max)	(max)	(±0.5)	(±0.5)		(±0.5)	(±0.5)				
2-Line Chokes															
RT8522-6-10M0, RT8522-8-8M0, RT 8522-10-6M0	16	-	20	43	32	44	32	26	-	27.8	22	1.5	2.5	3	2.9
RT8522-12-5M0, RT8522-16-4M0	16	-	22	50	32	52	39	33	-	27	23	1.9	2.5	3	2
RT8522-20-3M0	16	-	22	56	32	57	42	35	-	31.2	25	2.1	2.5	3.5	3.1
3-Line Chokes															
RT8532-6-6M0, RT8532-8-4M8	36	18	24	44	32	47	41	27	9	29	-	1.4	1.4	2.5	2.5
RT8532-10-4M0,RT8532-12-3M6	38	19	24	49	34	53	46	28.5	9.5	31	-	1.7	1.7	4	3.5
RT8532-16-3M0, RT8532-20-2M5	46	23	29	56	37	60	53	34.5	11.5	34	-	2.2	2.2	3.5	2.5

Pin material: Copper (base), Sn (final plating typical thickness 0.15 mm; composition: Sn-1.2AG-4Cu or SN-3Cu-0.25Ni)

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

Mechanical Data: Horizontal Chokes 25A - 85A

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

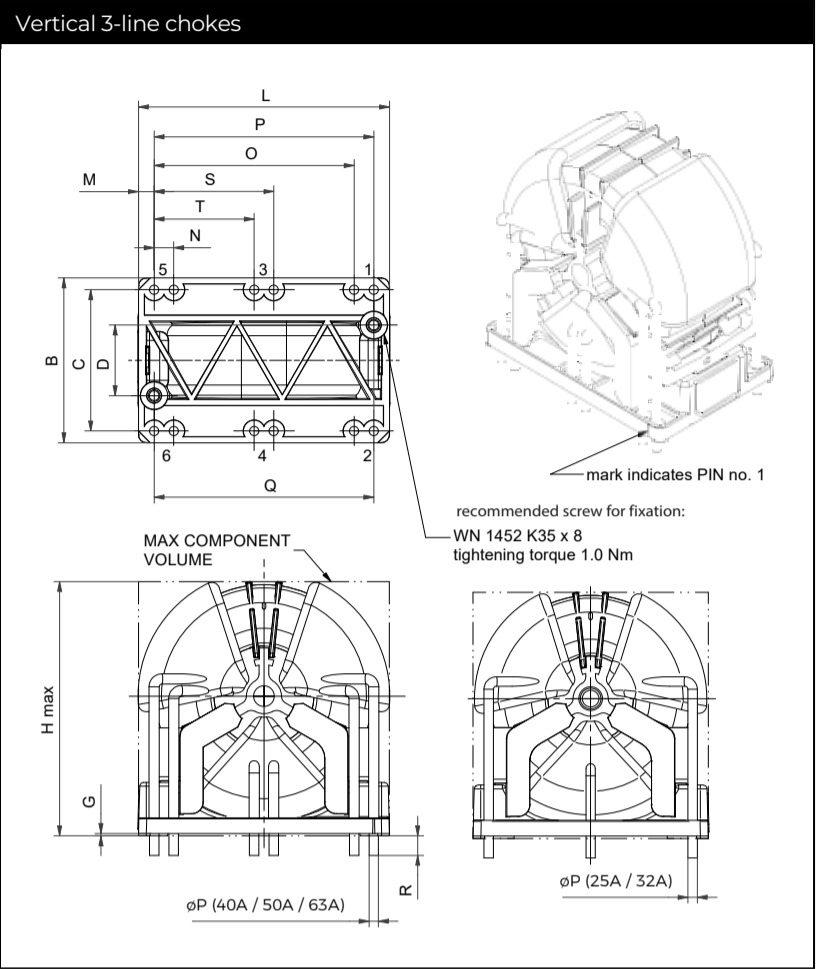
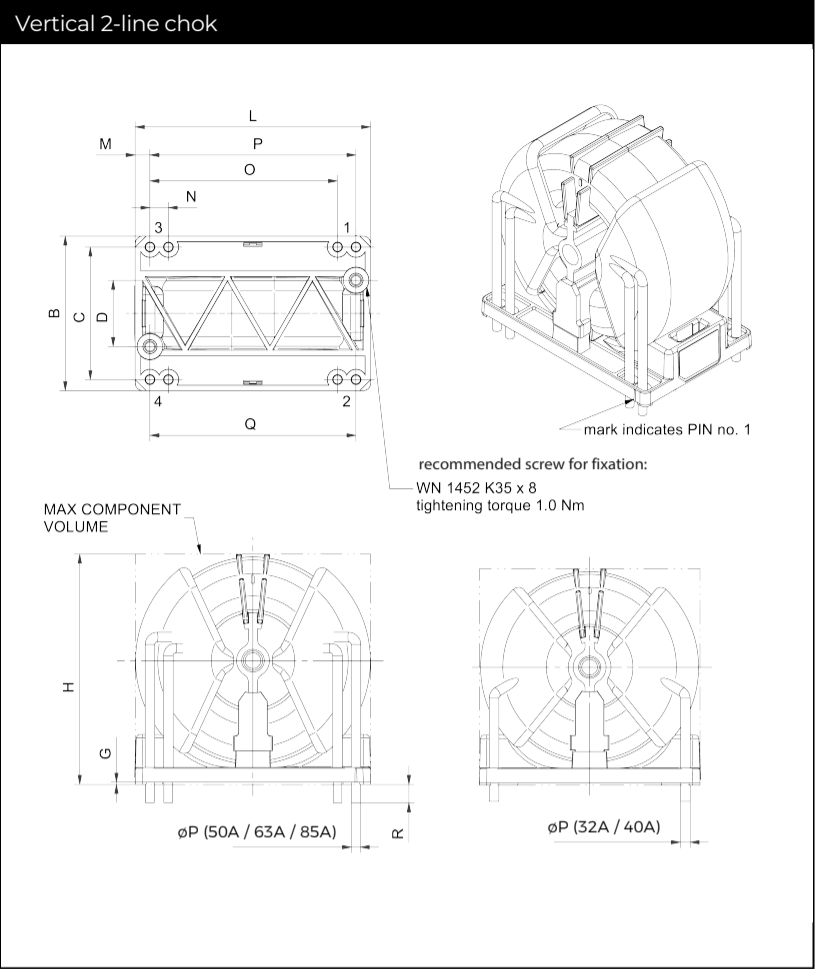


Dimensions

	$\varnothing D$	H	G	$\varnothing E$	f	g	L
	± 0.2	(max)	± 0.1	± 0.2	$\pm 1^\circ$	$\pm 1^\circ$	± 0.5
2-Line Chokes							
RT8122-25-2M5	56	34	0.6	49	15°		5
RT8122-32-1M5, RT8122-40-1M2	62	37	0.6	55.4	15°		5
RT8122-50-1M0, RT8122-63-0M5	66	41	0.6	59.8	12°	22°	5
RT8122-85-0M4	73.5	47	0.6	64.8	12°	22°	5
3-Line Chokes							
RT8132-25-1M5, RT8132-32-1M2	62	38	0.6	55.4	15°		5
RT8132-40-0M7, RT8132-50-0M5, RT8132-63-0M3	66	42	0.6	59.8	12°	22°	5
RT8132-85-0M2	73.5	46	0.6	64.8	12°	22°	5

Mechanical Data: Vertical Chokes 25A - 85A

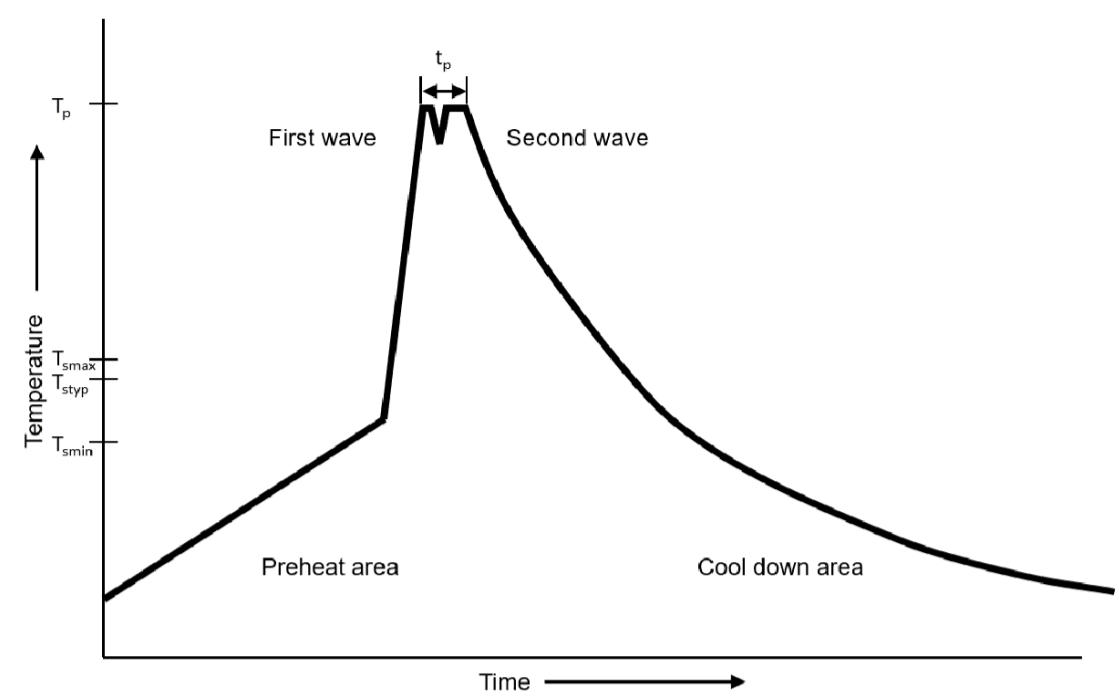
All dimensions in mm; 1 inch = 25.4 mm
Tolerances according: ISO 2768-m/EN 22768-m



Dimensions

	H	G ±0.1	B ±0.2	C ±0.4	D ±0.2	L ±0.2	M ±0.1	N ±0.4	O ±0.4	P ±0.4	Q ±0.4	S ±0.4	T ±0.2	R ±0.5
2-Line Chokes														
RT8522-25-2M5	55	0.6	36	30	12	55	4							
RT8522-32-1M5, RT8522-40-1M2	60	0.6	38	32	12	60	4			52	46			5
RT8522-50-1M0, RT8522-63-0M5	64	0.6	42	36	18	64	4	5	51	56	56			5
RT8522-85-0M4	70	0.6	46	40	18	71	4.5	6	56	62	56			5
3-Line Chokes														
RT8532-25-1M5, RT8532-32-1M2	63	0.6	38	32	12	60	4			52	46		26	5
RT8532-40-0M7, RT8532-50-0M5, RT8532-63-0M3	67	0.6	42	36	18	64	4	5	51	56	56	30.5	25.5	5
RT8532-85-0M2	74	0.6	46	40	18	71	4.5	6	56	62	56	34	28	5

Soldering Profile



Reference IEC61760-1:2020

Profile Feature		Lead (Pb) Free Solder
Preheat	Temperature min. (T_{smin})	100 °C
	Temperature typ. (T_{styp})	120 °C
	Temperature max. (T_{smax})	130 °C
	Time (T_{smin} to T_{smax})(t_s)	70 seconds
Δ Preheat to max Temperature		150 °C max.
Peak temperature (T_p)		250 °C – 260 °C
Time at peak temperature (t_p)	6 seconds max.	
	2 seconds each wave	
	~ 2 K/s min.	
	~ 3.5 K/s typ.	
Ramp-down rate	~ 5 K/s max.	
Time 25 °C to 25 °C		4 minutes

Manual solder

350 °C \pm 10 °C, 10 seconds \pm 1s (by soldering iron).

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