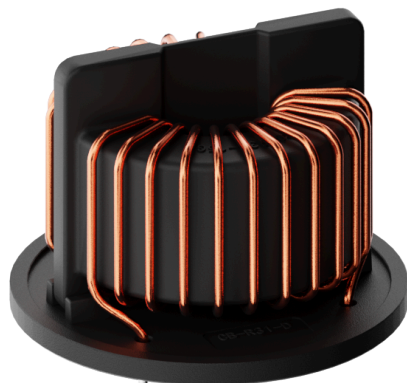


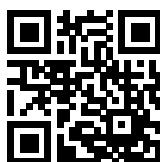
RT8122-12-5M0

SAP Code: 816958



- PCB Common Mode Choke
- Horizontal 12 A PCB two line Common Mode Choke with 5 mH Inductance
- General
- 2 Line

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Approvals & Compliances

RoHS



EIS applicable for currents > 20A

Features and Benefits

- Cost-effective PCB designs for up to 100 A with forced cooling *
- EIS (elektrical insulation system E332676) for currents > 20A acc. to UL 1446
- Compact size and light weight
- Low magnetic leakage flux
- Excellent winding insulation
- Standardized foot print
- Broad range of inductance ratings
- Custom-specific versions on request

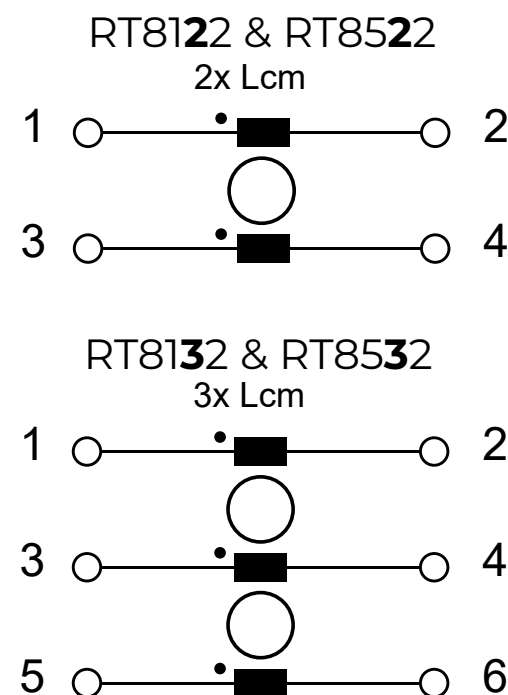
Family Technical Specifications

Rated currents	12
Rated inductance	0.3 to 6 mH (3-line) 0.5 to 10 mH (2-line)
Altitude	2000 m, current and voltage derating above
Vibration and shock	3M4 (according IEC 60721-3-3)
Flammability according to	UL 94 V0
MTBF	>2'000'000 h (MIL-HDBK-217)
Operating voltage	600 VAC (3-line) 300 VAC/425 VDC (2-line)
Operating frequency	DC to 400 Hz
Stray inductance	Max. 1% of rated inductance (@ 100 kHz 1 V, 0 A)
High potential test voltage	3 kV DC 3s (coil to coil) Repetition with max. 80% of the HV test voltage
Temperature range (operation and storage)	-40°C to +100°C (6 to 20 A) / -40°C to +125°C (25 to 63 A)
Climatic category	40/100/56 (acc. IEC 60068-1) (6 to 20 A) / 40/125/56 (acc. IEC 60068-1) (25 to 63 A)
Design corresponding to	UL/IEC 60938-1/-2 UL1446 (>20A)
Overvoltage category	III (acc. IEC 60664-1)
Creepage and clearance distances	Creepage & Clearance (2-line): ≥ 3.5 mm (Coil - Coil) / ≥ 3.0 mm (Coil-Core) Creepage & Clearance (3-line): ≥ 6.3 mm (Coil - Coil) / ≥ 5.5 mm (Coil-Core)
Pollution degree	PD2 (acc. IEC60664-1)

Typical Applications

- AC and DC filtering for midsize power range drives, photovoltaic inverters, fast chargers, EV charging stations, UPS and switch mode power supplies
- Filter with low leakage current noise or improved immunity against grid disturbances
- Electronic devices, automation and (industrial) LED lighting
- Communication devices
- Medical and laboratory Equipment
- Converters

Typical electrical schematic



General Specification

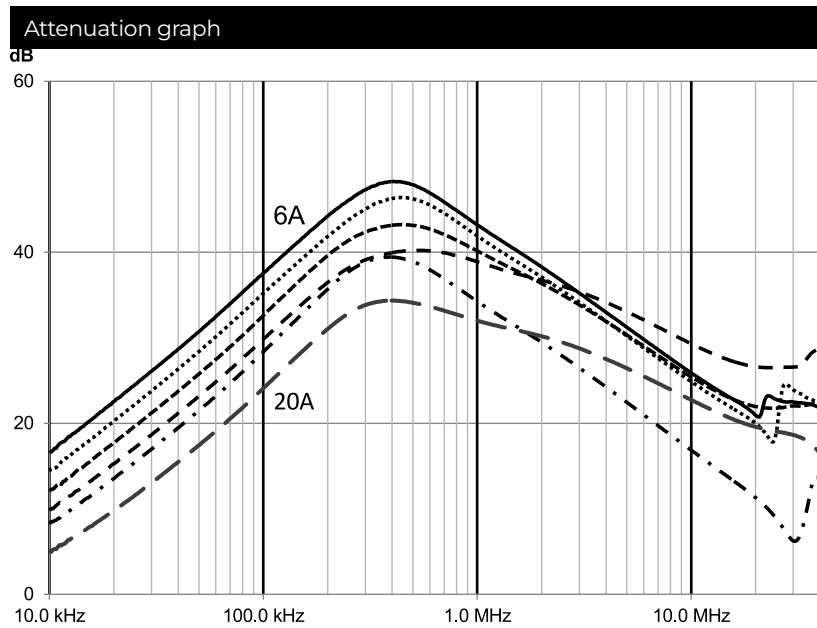
Voltage AC	300 (Volt)
Voltage DC	425 (Volt)
Nominal Frequency	50 (Hertz)
Rated Current @ambient	12
Ambient temperature [°C]	60

Electric Specification

Input terminal	02 - PCB Pin
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Attenuation Specification

Inductance L1	5 (Millihenry)
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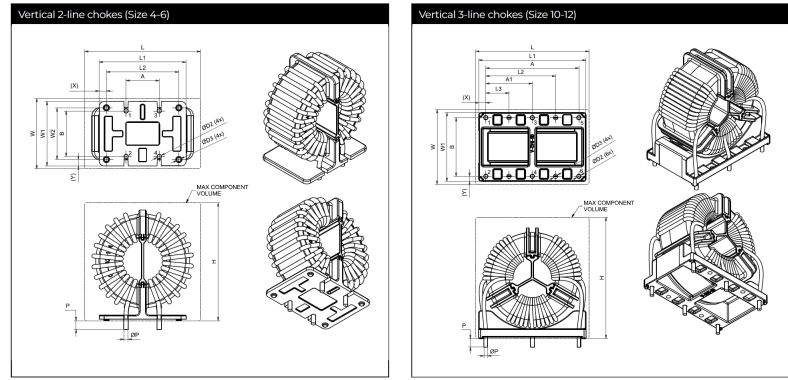


Mechanic Specification

Schaffner schemes

Mechanical Data Image

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)				
Size 4 (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
Size 5 (RT8522-12-5M0, RT8522-16-4M0)	16	-	22	50	32	52	39	33	-	27	23	1.9	2.5	3	2
Size 6 (RT8522-20-3M0)	16	-	22	56	32	57	42	35	-	31.2	25	2.1	2.5	3.5	3.1
Size 10 (RT8532-6-6M0, RT8532-8-4M8)	36	18	24	44	32	47	41	27	9	29	-	1.4	1.4	2.5	2.5
Size 11 (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
Size 12 (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

Dimensions