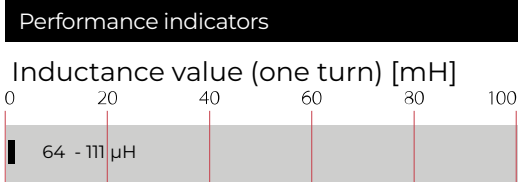
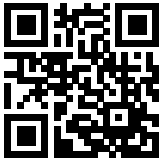




- Common mode EMI mitigation
- Nanocrystalline core material
- Efficient installation
- Stackable
- Flat or vertical mounting



Technical Specifications

Rated inductance	64 - 111 μ H
Operating frequency	DC to 400 Hz
Design corresponding to	IEC 60938-3
Operation temperature	-40°C to +100°C
Climatic class	40/100/21 (acc. IEC 60068-1)
Cooling	AN

Approvals & Compliances

RoHS

The RR1000 common mode choke series is well suited for non-intrusive EMI mitigation. No further connections are needed for an efficient installation. The chokes are typically applied over cable bundles and need no further electrical connection.

The nanocrystalline ring core technology provides significant attenuation from 150 kHz to 30 MHz.

If cables are looped twice through the core, inductance quadruples. For three turns, inductance increases by factor 9.

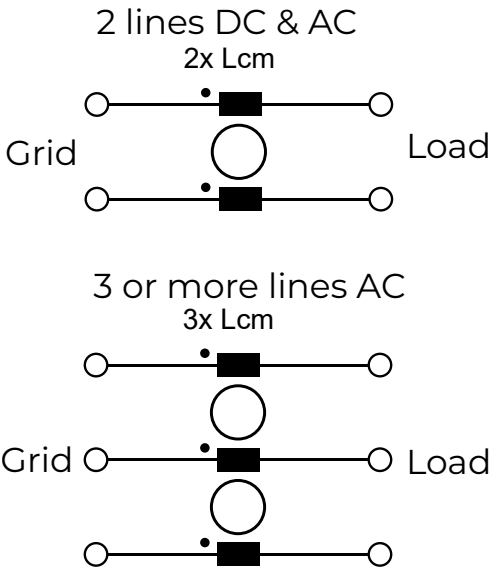
Features and Benefits

- High performance nanocrystalline core material
- EMI mitigation without leakage currents
- Reduction of bearing currents in motors
- Easy installation with no electrical connections
- Chokes can be stacked for higher performance
- EMI mitigation without leakage current

Typical Applications

- Motor protection
- Common mode EMI mitigation for large cable diameters
- 2 line AC or DC
- 3 or four lines AC

Typical electrical schematic



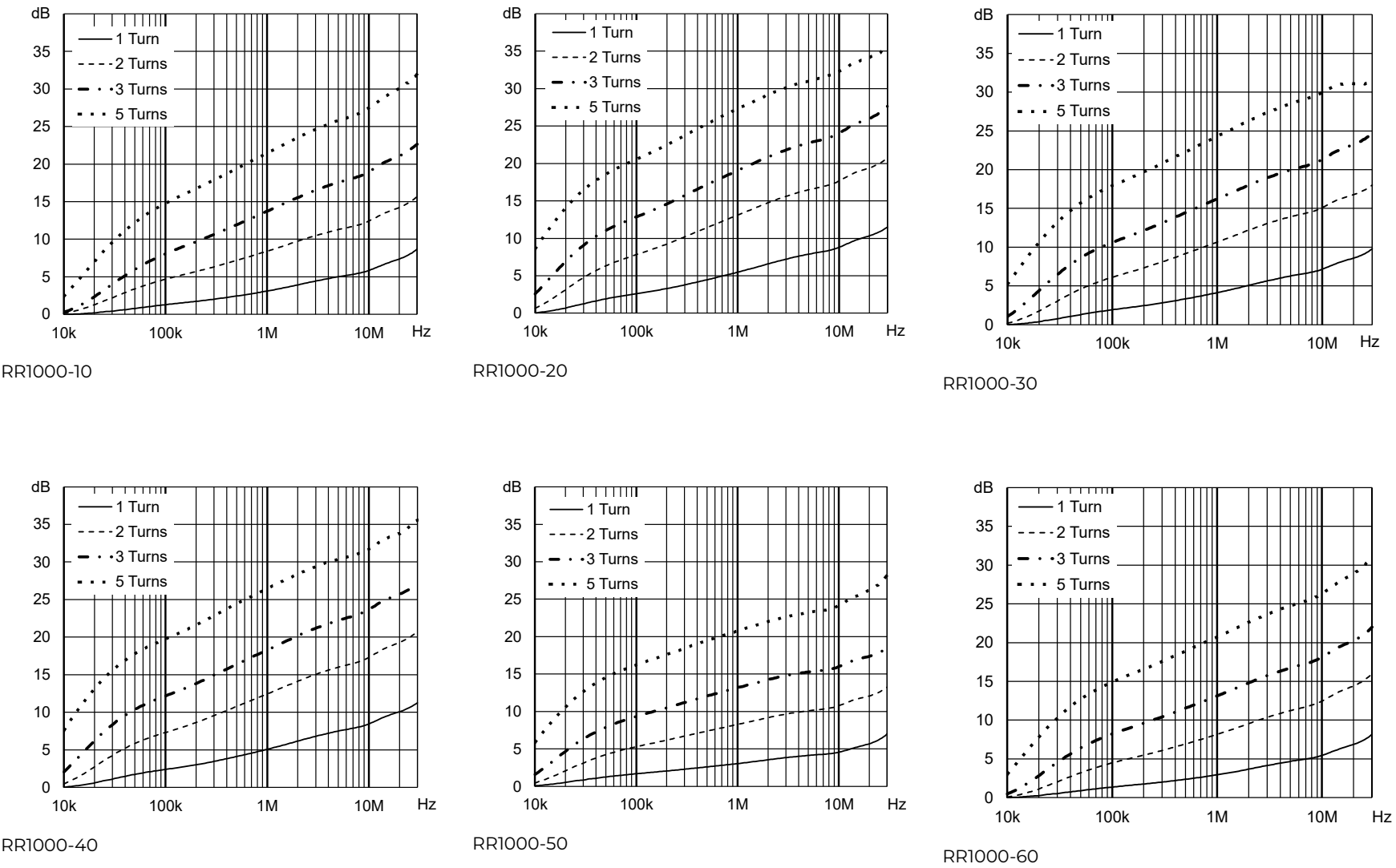
RR1000 Series

Selection table	*Typ. Inductance @ 10kHz	*Typ. Inductance @ 100kHz	Magn. Path	Magn. Area	Outer Diameter	Inner Diameter	Core Height	Weight
	Ls @ 25°C	Ls @ 25°C	Lfe	Afe	OD	ID	W	
	[μH]	[μH]	mm	mm²	[mm]	[mm]	[mm]	[kg]
RR1000-10	64	19	178	127	68	45	30	0.22
RR1000-20	125	39	204	292	85	45	30	0.55
RR1000-30	79	25	280	254	108	69.5	31	0.68
RR1000-40	111	35	322	410	126.5	78.5	36	1.2
RR1000-50	90	27	361	351	137	93	36	1.18
RR1000-60	56	17	456	293	167	123	31	1.2

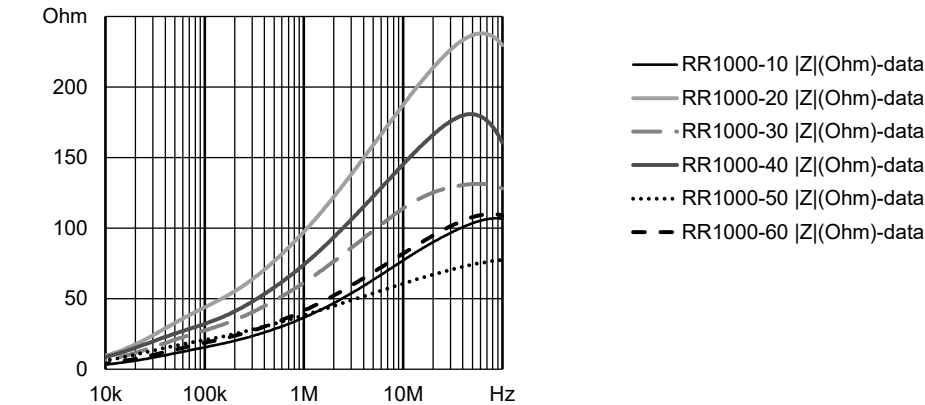
*Inductance given for one turn.
Tolerance: 10 kHz +/-30%, 100 kHz +/-45% @100 mV

Typical Attenuation

Per CISPR 17; CM=50 Ω/50 Ω sym; DM=50 Ω/50 Ω asym



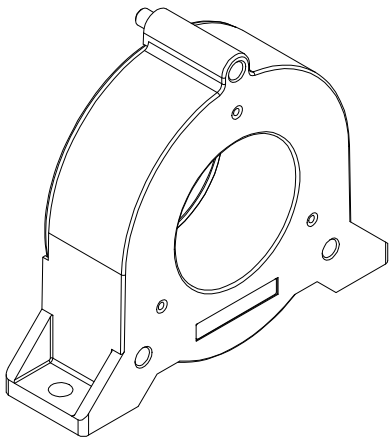
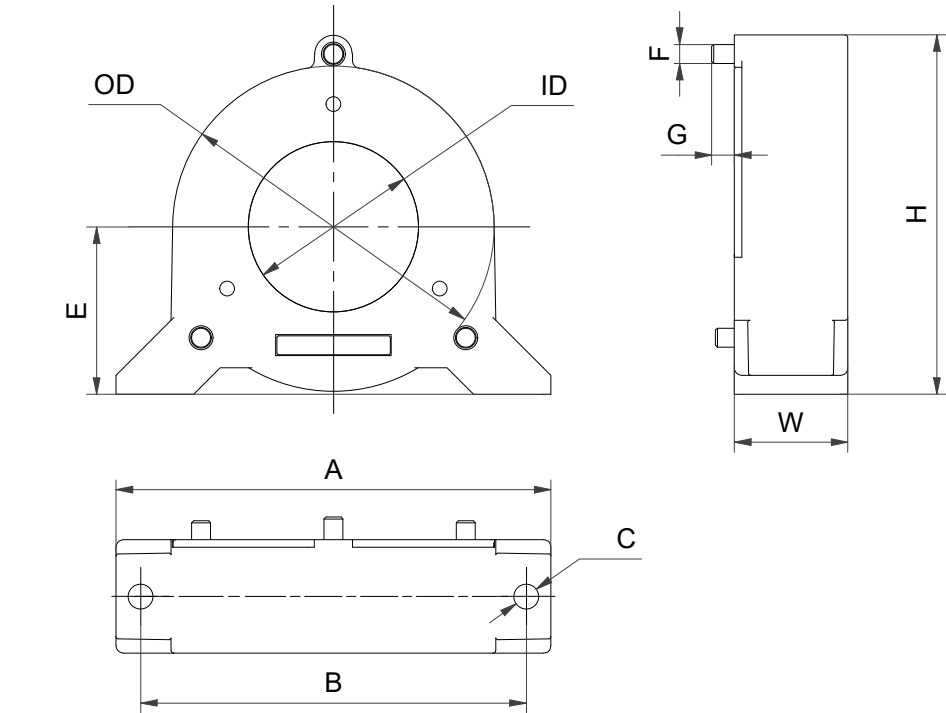
Typical Impedance



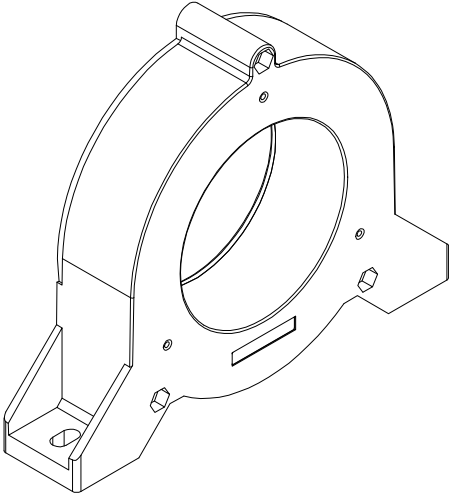
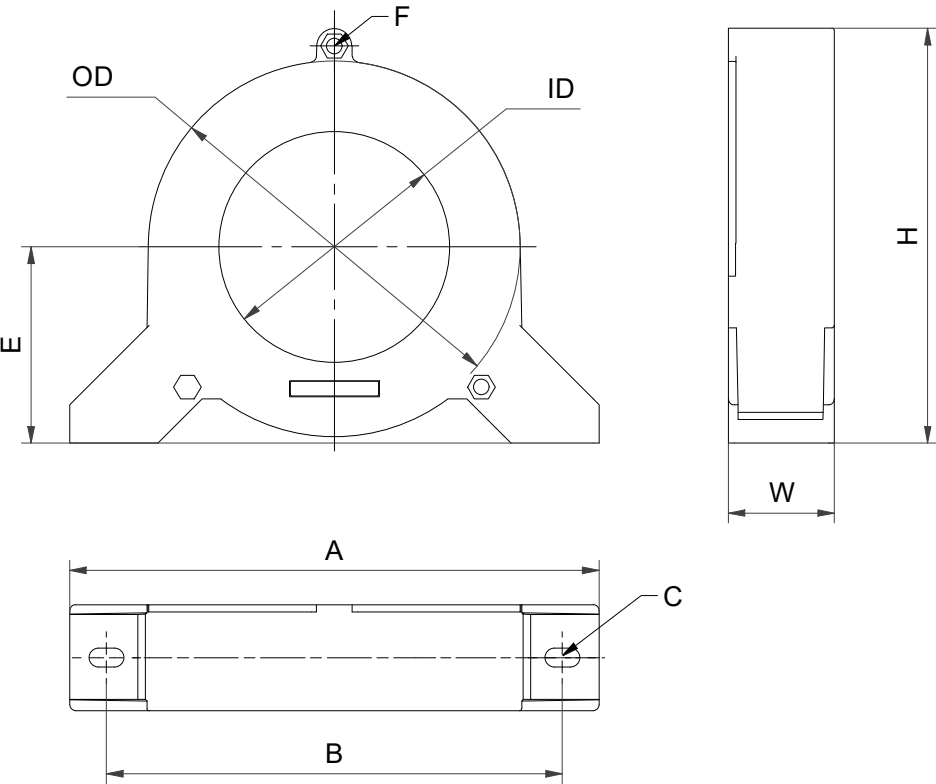
One turn

Dimensions

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



RR1000-10
RR1000-20



RR1000-30
RR1000-40
RR1000-50
RR1000-60

Dimension table	OD	ID	W	H	A	B	C	E	F	G
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
RR1000-10	68	45	30	78	98	85	6.5	36	5	6
RR1000-20	85	45	30	95	115	102	6.5	44	5	6
RR1000-30	108	69.5	31	122	170	150	6.5x12	57	Hole for hex cap screw M5	
RR1000-40	126.5	78.5	36	141	180	155	6.5x12	66		
RR1000-50	137	93	36	152	200	175	6.5x12	73		
RR1000-60	167	123	31	182	240	210	6.5x12	88		

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