

Common Mode Choke – CH40XX series

Special Features:

- Cost-effective design
- Scalable modular design
- Low parasitic capacitance
- High self-resonant frequency
- Low DC resistance
- Operating temperature: -40°C to 130 °C
- Dedicated for AC power systems rated up to 600VAC or DC systems rated up to 1000VDC

Typical Applications:

- EMI filters
- Switch mode power supplies

Packaging possibilities:

- ESD box
- Cardboard box

For samples please contact directly

Environmentally friendly solution:

- Design suitable for recycling
- No glue or varnish added
- RoHS and REACH compliant

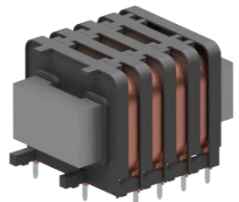
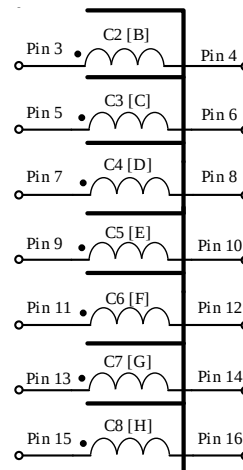
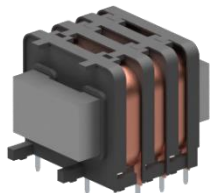
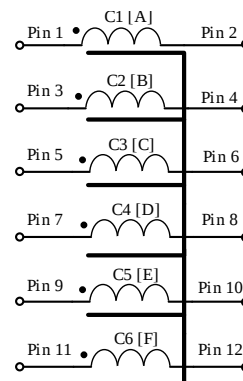
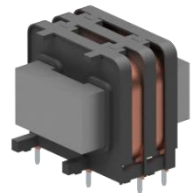
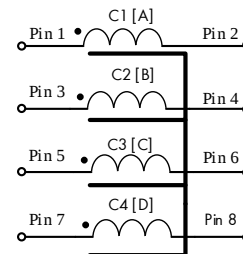
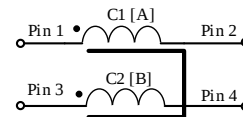


Table 1. Electrical parameters

CH40XX -Series						
Part Number	Number of segments	L_{CM} (μ H) +/-20% @0,1V; 20kHz	L_{DM} (μ H) min. @0,3V; 10kHz	DCR ($m\Omega$) max. @20C	Rated current (A)	Saturation current (mA)
CH4024 - 2x16A	1	1100	4,7	4 $m\Omega$ / each single coil	max. 16A/ each single coil	133
CH4026 - 4x16A	2	900	1,8			267
CH4025 - 6x16A	3	750	1,8			400
CH4040 - 8x16A	4	650	1,7			533

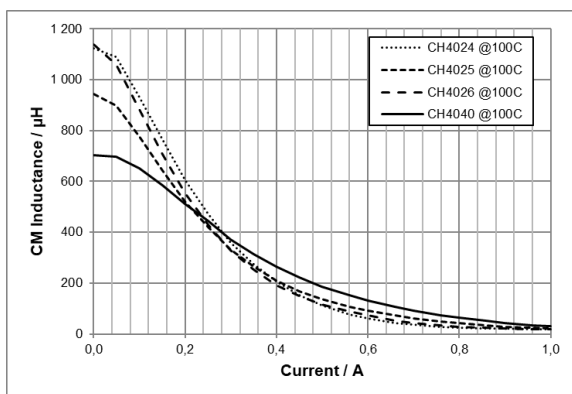


Figure 1. CM Inductance vs. DC Current @100°C

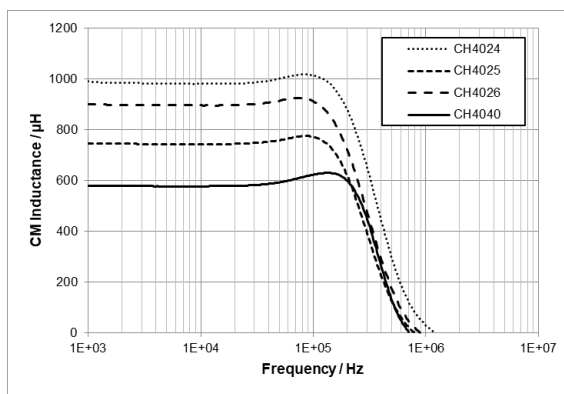


Figure 2. CM Inductance vs. Frequency @20°C

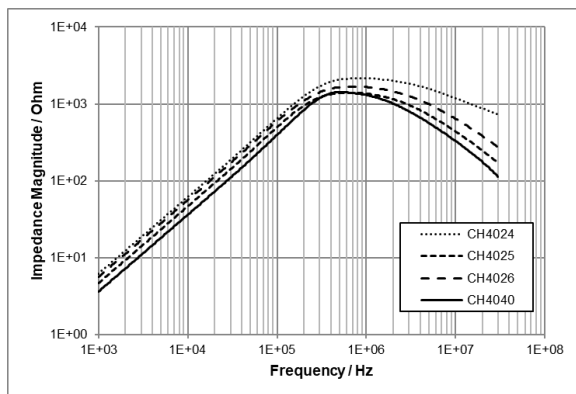
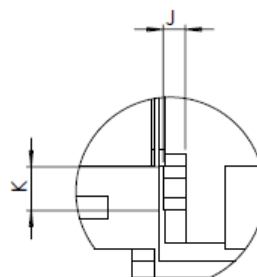
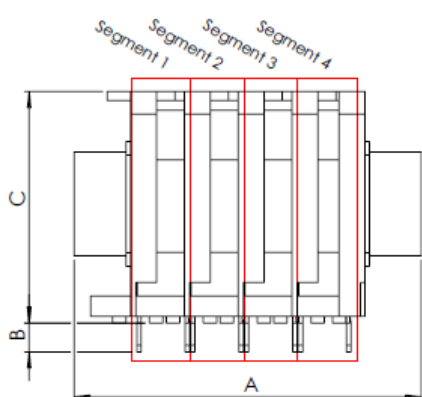
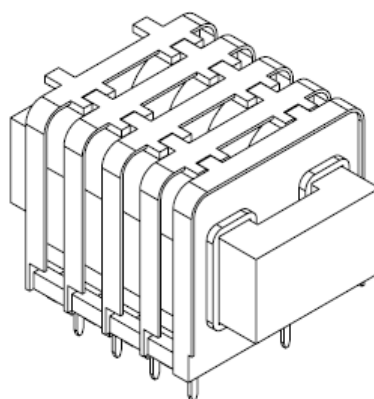
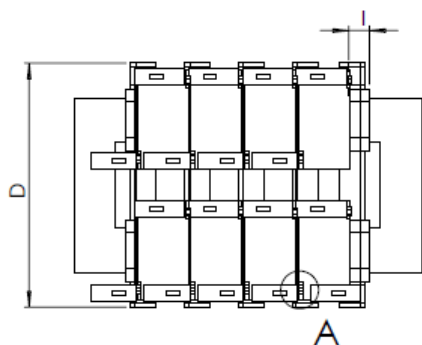


Figure 3. CM Impedance vs. Frequency @20°C



Detail A

Table 2. Mechanical parameters.

	1 segment	2 segments	3 segments	4 segments
	CH4024	CH4026	CH4025	CH4040
Number of coils / Dimension (mm/inch)	2	4	6	8
A	41,5 / 1,634 max.	53,5 / 2,106 max.	65,5 / 2,579 max.	77,5 / 3,051 max.
B	5,5 ± 1 / 0,217 ± 0,039			
C	51,6 / 2,031 max.			
D	54,5 / 2,146 max.			
E	12 / 0,472			
F	10,8 / 0,425			
G	17,3 / 0,681			
H	11,9 / 0,469			
I	4,6 / 0,181			
J	1 / 0,039 max.			
K	2 / 0,079 max.			
Typical mass (g)	193	282	372	461

