

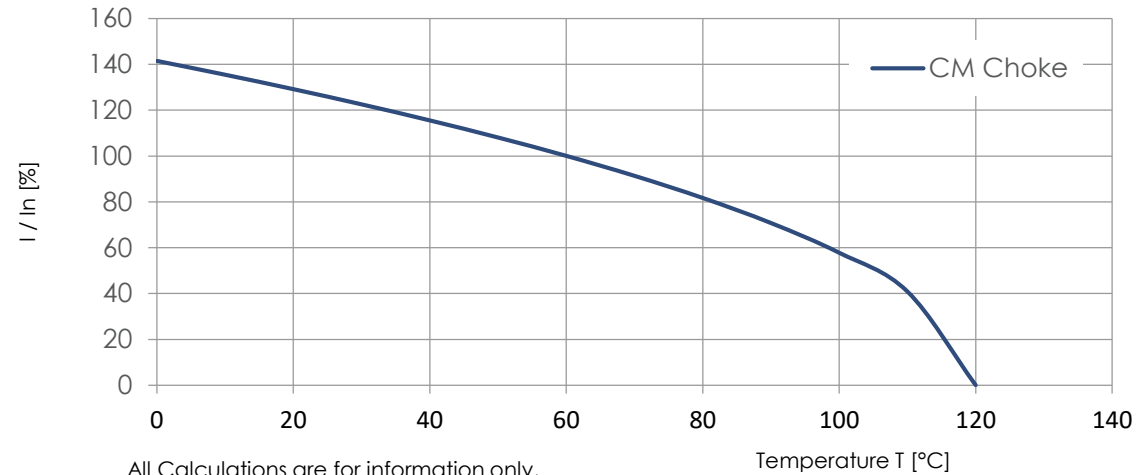
High inductance and high impedance in a wide frequency range

Advanced EMI suppression over a wide frequency range

Low saturation flux density drop at high temperatures

High operational temperature up to 130°C

Curie temperature as high as app. 600°C



All Calculations are for information only, not guaranteed values.



The nominal currents stated for our components refer to an ambient temperature of 60°C (or 70°C) - as indicated on the component data-sheet. Without any further indication free convection is assumed. The maximum operating current at any other ambient temperature can be calculated by means of the following formula

$$I = I_{nom} \sqrt{\frac{T_{max} - T}{T_{max} - T_{nom}}}$$

where

- I_{nom} = rated current at T_{nom}
- T = actual ambient temperature
- T_{nom} = temperature at which the rated current is defined
- T_{max} = rated maximum temperature of the choke

Example CMC MB-007:

$I_{nom} = 16A, T_{nom} = 60°C$

At $T = 40°C$ the max. operating current I can be ca. 18,5 A, at $T = 80°$ it can be ca. 13 A only.

If forced cooling is applied to the component operating current can be increased by ca. 40%.

Note: All these figures are estimations and in particular overtemperature has to be verified by testing in the real application.