

1.1. Electrical Characteristics**1.1.1. Rated Voltage - U_R**

The rated voltage is the max. value of DC or AC voltage, which can be operated by the component during the complete time.

1.1.2. High Voltage Test - U_P

The high voltage test depends on the relevant norm. It can be a DC- or AC voltage test. The duration of the test voltage according to IEC 60938 or IEC 61558-1.

1.1.3. Rated Current - I_R

The rated current is the maximum DC or AC current during the component operation. That means by Ambient Temperature of 40°C or 60°C.

1.1.4. Over Current

The current through the component can be above maximum current for a short time. Details are available on request.

1.1.5. Impulse Impact

There can be saturation effects in ferrite cores during impact of impulse with high energy. This can reduce the filtering operation. Value for Impulse Impact is maximum Voltage/Time area. Details are available on request.

1.1.6. Current-Derating - I_s/I_R

If the ambient temperature is increasing and not equal to specified value, then the current rated has to be decreased according to the derating curves.

1.1.7. Nominal Inductance - L_R

Nominal Inductance of a Choke is described in unit Henry. Measured by frequency fm 10kHz/100kHz and test current of 0.1mA.

1.1. Electrical Characteristics Continued**1.1.8. DC-Resistance - R**

The DC-Resistance is measured with DC-Current on each terminal by the ambient temperature of 25°C.

1.1.9. Leakage Inductance - L_s

The leakage inductance is measured on first winding if terminals of second winding will be shorted. The leakage inductance is applicable for differential mode operation.

1.2. Isolation Class

Standard Isolation Class for all components is Class B (130° Celsius).

Components in Class F (155° Celsius) and Class H (180° Celsius) are available on request.

1.3. Climatic Characteristics**1.3.1. Max. and Min. Class-Temperature T_{max.} and T_{min.}**

The maximum and minimum class temperature (T_{max}/T_{min.}) is maximum or minimum ambient temperature during permanent operation of the component.

1.3.2. Rated Temperature T_R

The rated temperature T_R is the max. ambient temperature of the component during permanent operation.

1.3.3. Reference Temperature for Measurements

As a standard reference temperature for electrical measurements we have a temperature of 25°C.