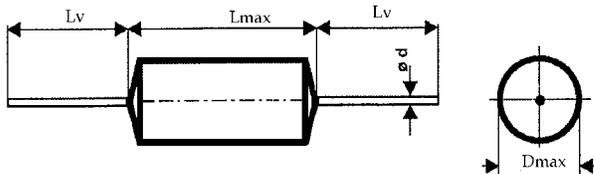


MKP300 – 191 Capacitors for DC & AC applications

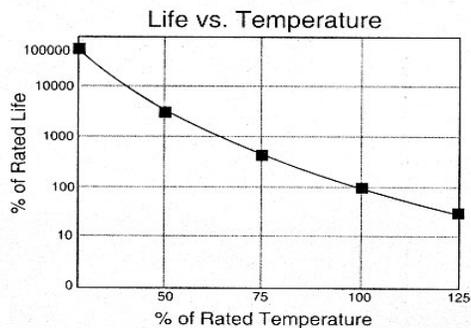
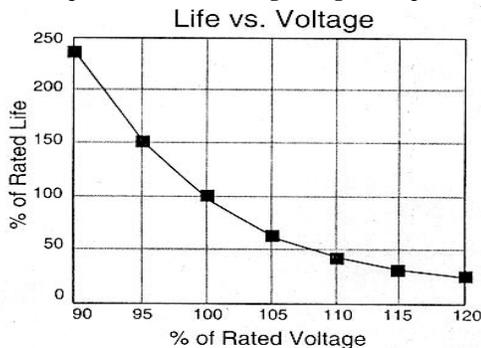


INFO



Dimensions: D=30, L=60, L_V=50mm

Influence of temperature and working voltage on expected service-life



Warning! The manufacturer is not responsible for any damages, caused by the improper installation and application. Before using the capacitor in any application, please, read carefully this technical data-sheet.

Construction:

Metallized film electrodes, polypropylene dielectric, Non-inductive, series internal connection, self-healing construction.

Surface insulation: polyester film wrapped, epoxy resin sealed

Applications:

AC voltage applications with high peak voltage and current loading.

Technical data

Rated voltage U_R: 1600 VDC

Rated voltage is the max. DC or peak voltage, for which the capacitor is designed.

If the capacitor works with the DC and also super-imposed AC voltage U_{AC}, the sum of DC and the amplitude of AC must not exceed the U_R

Max permissible AC voltage: 700V 50/60Hz,

If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the max. loss power of the capacitor.

$$U_{MAX} = \sqrt{\frac{P_L}{2\pi \times f \times C_R \times \text{tgD}}}$$

Rated capacitance: 1µF, other capacitance on request

Tolerance: ±10%, ±5%, other tolerance on request

Dissipation factor Tgδ: < 0,0006 at 1kHz and +25°C

Insulation resistance R_{IS}: 30 000/°C [MΩ; uF]

Operating temperature range: -40 ÷ +70°C

The highest permissible capacitor temperature at the hottest point of the case must not exceed +70°C.

Test voltage between terminals: 1800VDC, 1min, at +25°C, and 880V 50Hz 1min. at +25°C

All capacitors are tested by the routine test by the producer

Protection against Over-voltages:

The capacitors are self-healing and regenerate themselves after occasional breakdowns. The capacitor remains fully functional after the breakdown.

Permitted Over-voltages in working conditions:

1,1 x U_R max. 10% of the service period
If the Over-voltages exceed the permissible values above, the capacitor might have been destroyed.

Test voltage between terminals and case: 3000VDC, 1min. at +25°C

Max. repetitive rate of voltage rise dU/dt: < 150V/µsec at U_R and +25°C

Max. peak current I_p: < C_R x dU/dt

Related standards: IEC 60384-1

Marking for purchase ordering:

KPI300-191 1uF±10% 1600V DC/700VAC