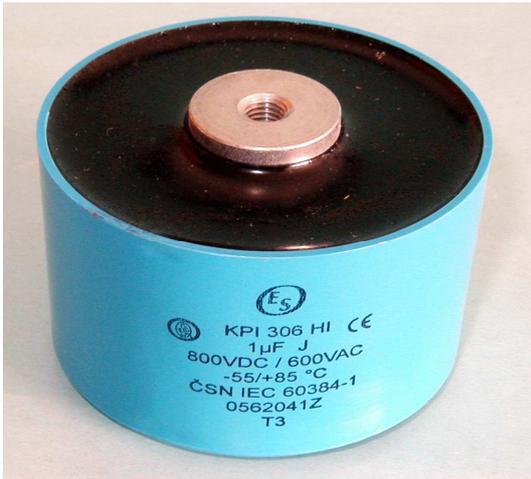




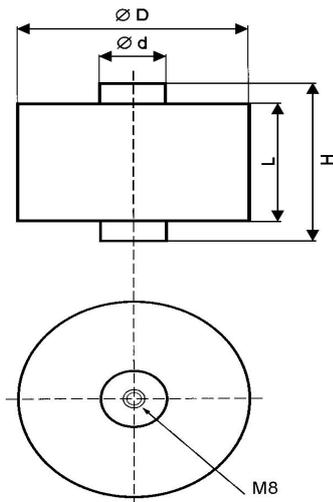
CYLINDRICAL CAPACITORS FOR HIGH PULSE AND GTO APPLICATIONS

MKP 306M



INFORMATIVE

Dimensions:



Construction:

Metalized film electrodes, polypropylene dielectric film, Non-inductive, self-healing construction, The windings are enclosed in a cylindrical plastic case, epoxy resin sealed, self-extinguishing, UL94-V0

Mechanical fixing and electrical contact are made by threaded holes M6 or M8 on the facing of the case.

Permitted Torque: M6 4Nm
M8 7Nm

Applications:

The capacitors are suitable to withstand high peak current loading. The axial construction minimizes the series inductance, have very low series resistance and good thermal dissipation of heat.

Technical data

Rated voltage U_R 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 the sum of DC and the amplitude of AC must not exceed the U_R

Max permissible AC voltage: 360Vrms

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

Tolerance: $\pm 5\%$, other tolerance on request

Dissipation factor $Tg\delta$: $< 0,0003$ at 1kHz and $+25^\circ\text{C}$

Insulation resistance R_{IS} : 30 000/C [M Ω]

Operating temperature range: $-40 \div +85^\circ\text{C}$

Max permissible ambient temperature: $+70^\circ\text{C}$ on case

The highest permissible capacitor temperature at the hottest point of the case must not exceed $+85^\circ\text{C}$.

Test voltage between terminals:

1,5x U_R , 1min at $+25^\circ\text{C}$

All capacitors are tested by the routine test by the producer

Protection against Overvoltages:

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

Non Recurrent Surge Voltage: U_{PK}

If the Overvoltages exceed the permissible value above, the capacitor might have been destroyed.

Test voltage between terminals and case:

3000VDC, 1min. at $+25^\circ\text{C}$

Max. peak current I_p : $< C_R \times dU/dt$

Related standards: EN 60384-1

Marking for purchase ordering, sample:

MKP306M 22 $\mu\text{F} \pm 5\%$ 1000V DC

| C_R [μF]* | U_R | U_{RMS} | Dimensions ⁺¹ [mm] | | | | dU/dt V/us | ESR [m Ω] | I_{max} [A] |
|--------------------------|-------|-----------|-------------------------------|----|----|----|---------------|----------------------|------------------|
| | [V] | [V] | D | L | d | H | | | |
| 22 | 1000 | 360 | 63 | 52 | 20 | 60 | 70 | <1 | 48 |
| | | | | | | | | | |

*Other Capacitance on request available

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.