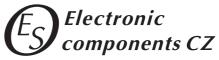
MKT Capacitors for high voltage applications

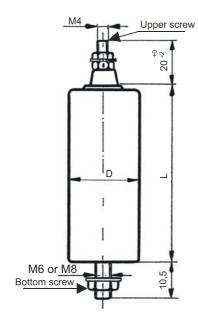


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MKT 500 - 002





Capacit.		Dimens	ion [mm]	
C _R (µF)	D	L	Upper screw	Botton
0,05	25	56	M4	M6
0,10	25	56	M4	M6
0,15	25	56	M4	M6
0,25	30	56	M4	M6
0,33	30	56	M4	M6
0,50	35	56	M4	M8
0,68	35	56	M4	M8
1,0	35	68	M4	M8

Construction:

Metallized electrodes, polyester - film dielectricum, Non-inductive, self-healing construction. Plastic cylindrical flame retardant case, with bottom screw M6x10, or M8x10

Applications:

High voltage capacitors for DC applications as coupling, decoupling, HV DC power supplies and other DC applications with low ripple current.

Technical data

Rated voltage U_R: 1600V DC

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 UAC, the sum of DC and the amplitude of AC must not exceed the $U_{\mbox{\scriptsize R}}$ Max permissible AC voltage: 400V 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.

$$\text{Max.U}_{\text{AC(f)}} = \sqrt{\frac{P_{\text{L}}}{2\pi f C_{\text{R}} \times tg\delta}}$$

Rated capacitance: 0,05 ÷ 2µF

Tolerance: 10%, 5%,

Dissipation factor Tgδ: < 0,01 at 1kHz and +25°C Insulation resistance R_{is}: >10 000/C [MΩ] Operating temperature range: -40 ÷ +85°C

The highest permissible capacitor temperature at the hottest point of the case must not exceed +85°C.

Max . permitted dissipation power of the capacitor PL: depend on the construction of the capacitor and the cooling conditions, see table.

Test voltage between terminals: 1,25 × U_R, 1min. at +25°C All capacitors are tested by the routine test by the manufacturer **Protection against Overvoltages:**

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

Permitted Overvoltages in working conditions:

1,10 × U_R max. 30% of the service period

1,15 × U_R max. 30min./day $1,20 \times U_R \text{ max.}$ 5min./day $1,25 \times U_R \text{ max.}$ 1min./day

If the Overvoltages 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:

< 20V/µsec at U_R and +25°C Max. peak current I_p : $< C_R \times dU/dt$ Terminals: upper-screws M4

bottom-screw M6x10 bottom-screw M8x10

Related standards: IEC 60384-1, IEC 60384-2 Marking for purchase ordering: MKT 500-002

0,25µF/K/1600VDC