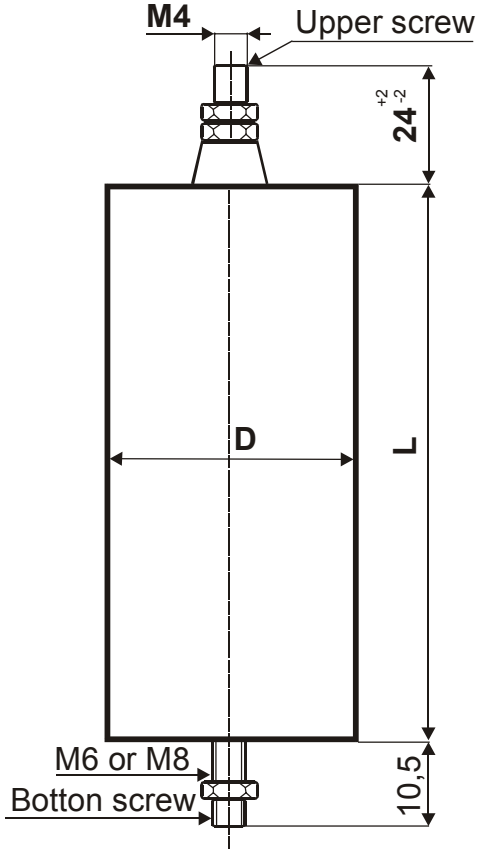
Elektronické součástky CZ, a.s.

MKT CAPACITORS FOR HIGH VOLTAGE APPLICATIONS
MKT 500 - 002



Capacity C_R [µF]	Dimensions [mm]			
	D	L	Upper screw	Bottom screw
0,05	25	56	M4	M6
0,1	25	56	M4	M6
0,15	25	56	M4	M6
0,25	30	56	M4	M6
0,33	30	56	M4	M6
0,5	35	56	M4	M8
0,68	35	56	M4	M8
1,0	35	68	M4	M8

Construction:
Metallized electrodes, Polyester-film dielectric,
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 U_{AC}, the sum of DC and the amplitude of AC must not exceed the U_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.
Max.$U_{AC(f)} < \sqrt{(P_L/2\pi f C_R)}$
Rated capacitance: 0,05 – 2uF
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 P_L: depend on the construction of the capacitor and the cooling conditions, see table.
Test voltage between terminals: 1,25 x U_R, 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. 30% of the service period
1,15x U_R max.30min./day
1,2 x U_R max. 5min./day
1,25 x U_R max. 1min./day
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:
< 20V/usec at U_R and +25°C
Max. peak current I_p: < C_R x dU/dt
Terminals: upper-screw M4
bottom-screw M6x10
bottom-screw M8x10
Related standards: IEC 60384-1, IEC60384-2
Marking for purchase ordering: MKT500-002
0,25uF/K/1600VDC
Warning! The manufacturer is not responsible for any damages, caused by the improper installation and application. Before using the capacitor in any application, pleas, read carefully this technical data-sheet.

KW220402 nahrazuje KW050302 a je platný od 22.4. 2002 KW220402