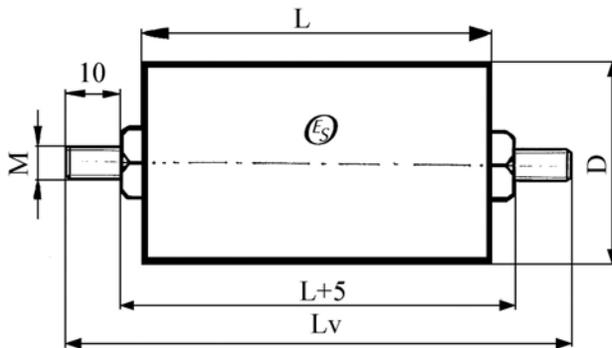


**CAPACITORS FOR HIGH VOLTAGE APPLICATIONS
MKT500-055**



Capacity C _R [nF]	Dimensions [mm]			M lead-screws
	D	L	L _V	
4,7	45	180	210 ^{±2}	M10

Construction:

Metallized electrodes, Polyester-film dielectric, Non-inductive, self-healing construction, Plastic cylindrical flame retardant case, with coaxial screw-leads M10x10

Applications:

High Voltage capacitors for DC applications as coupling, decoupling, HV DC power supplies and other DC applications with lower ripple current

Technical data

Rated voltage U_R: 30 000V 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: 6000V 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(t)} < √(P_l/2πfC_R)

Rated capacitance: 1,0 ÷ 5 nF, other capacity on request

Tolerance: ±10%, ±5%,

Dissipation factor Tgδ: < 0,01 at 1kHz and +25°C

Insulation resistance R_{IS}: >3000 [MΩ]

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: 1,1 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. 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:

30 000VDC, 1min. at +25°C

Max. repetitive rate of voltage rise dU/dt:

< 5V/usec at U_R and +25°C

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

Related standards: IEC 60384-1, IEC60384-2

Marking for purchase ordering:

MKT500-055 4,7nF ±10% 30 000VDC

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.