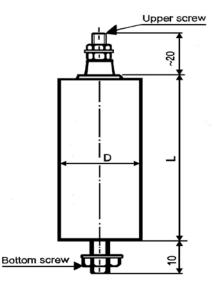
MKT500-058 CAPACITORS FOR HIGH VOLTAGE APPLICATIONS





Capacity	Dimensions [mm]			
C _R [nF]	D	L	Bottom-lead	Upper-lead
47	35	70	M6x10	M4

Construction:

Metallized electrodes, Polyester-film dielectric, Noninductive, self-healing construction, Plastic cylindrical flame retardant case, with screw-leads

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 Up: 8200/10 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 UAC, the sum of DC and the amplitude of AC must not exceed the U_R Max permissible AC voltage: 600V 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. $Max.U_{AC(f)} < \sqrt{(P_L/2\pi fC_R)}$

Rated capacitance: $1.0 \div 5$ nF, other capacity on request

Tolerance: $\pm 10\%$, $\pm 5\%$,

Dissipation factor Tgδ: < 0.01 at 1kHz and +25°C Insulation resistance R_{IS} : >20 000 [M Ω] Operating temperature range: $-40 \div +70^{\circ}$ 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:

20 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 : $< C_R \times dU/dt$

Related standards: IEC 60384-1, IEC60384-2 Marking for purchase ordering:

MKT500-058 47nF ±10% 8,2/10kVDC 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.