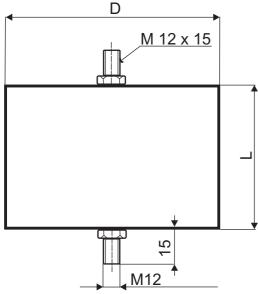
MKPI 300-125



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Capacit.	Dimension [mm]		
	D	L	Terminal screw
20	110	75	M 12

Construction:

Metallized polypropylene film, Non-inductive, self-healing construction. Plastic cylindrical flame retardant case, with bottom screw M 12 x 15.

Applications:

Filtering, smoothing, all other AC and DC applications with dU/dt < 500 V/µsec

Technical data

Rated voltage U_R: 600 VDC

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: see table

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: 20µF Tolerance: 10%, 5%

Dissipation factor Tgδ: < 0,01 at 1kHz and +25°C Insulation resistance R_{is} >10 000/C [MΩ] Operating temperature range: -55 ÷ +85°C

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

cooling conditions, see table. Test voltage between terminals: $1,25 \times U_R$, 1min. at $+25^{\circ}C$

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 × U_R max. 5min./day

1,30 × U_R 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:

< 500V/µsec at U_R and +25°C Max. peak current I_P: < C_R× dU/dt

Terminals: M 12 x 15

Related standards: IEC 60384-1, IEC 60384-17

Marking for purchase ordering: MKPI 300-125

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.