MKP Special capacitors
MKP 300-144

Electronic components CZ
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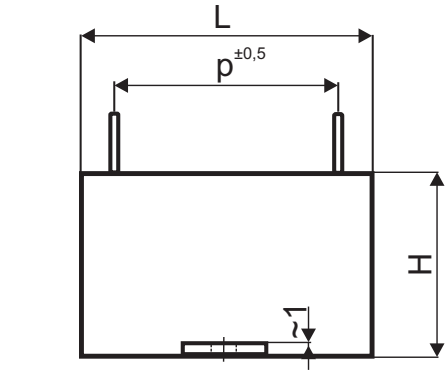

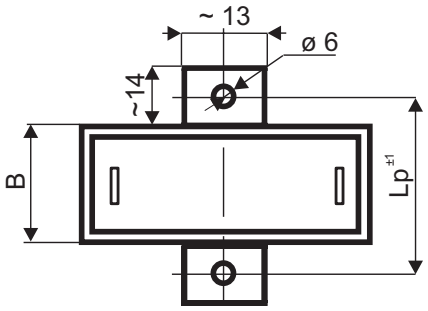

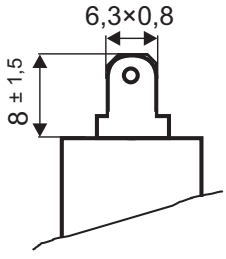

fastons

Capacit. C_R [µF]*	U_R [AC]	Dimension [mm]			
		B	H	L	p
1	1000	40	50	42,5	37,5
1,5	1000	35	50	70	50
2	1000	50	45	75	50
4	1000	55	55	110	75
8	1000	55	100	110	75

*Other values of capacitance on request

Construction:

Metallized polypropylene film, Non-inductive, self-healing construction in plastic boxes (UL 94 V0), epoxy resin sealed.
Leads: fastons

Applications:
AC and DC applications

Technical data

Rated voltage U_R: 2000 VDC/1000 VAC, 50 Hz
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:
If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the max. loss power of the capacitor.

$$\text{Max.}U_{AC(f)} = \sqrt{\frac{P_L}{2\pi f C_R \times \text{tg}\delta}}$$

Rated capacitance: 4 - 8 µF
Tolerance: 10%, other tolerances on request
Dissipation factor Tgδ: < 0,001 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.
Max . permitted dissipation power of the capacitor P_L: depend on the cooling conditions.
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 × 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:
< 20V/µsec at U_R and +25°C
Max. peak current I_p: < C_R × dU/dt
Terminals: special
Related standards: IEC 60384-1, IEC 60384-17

Marking for purchase ordering: MKP 300-144

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.