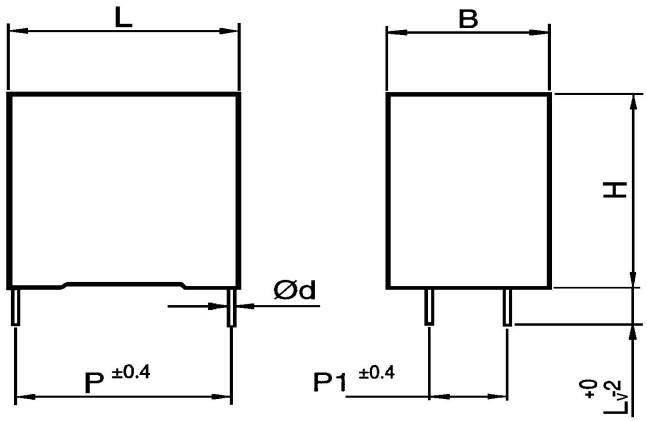
Elektronické součástky CZ, a.s.

MKP342S/1000V DC
CAPACITORS FOR DC OR AC AND PULSE APPLICATIONS

FOTO-INFORMATIVE:

INFO



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.

Construction:
Metalized polypropylene film electrodes,
Non-inductive, self-healing construction,
Plastic flame retardant case, epoxy resin sealed
Applications:
DC and AC applications with pulse loading, snubber applications.

Technical data
Rated voltage U_R: 1000DC
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: 500V 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.

$$U_{MAX} = \sqrt{\frac{P_L}{2\pi \times f \times C_R \times tgD}}$$

Rated capacitance: 15µF
Tolerance: ±20%, ±10%, other tol. on request
Dissipation factor Tgδ: < 0,0003 at 1kHz and +25°C
ESR: at 100kHz and+25°C < 2,5mΩ
Insulation resistance R_{IS}: 2 000 MΩ
Operating temperature range: -40 ÷ +70°C
The highest permissible capacitor temperature at the hottest point of the case must not exceed +85°C.
Test voltage between terminals: 1400VDC, 1min at +25°C, All capacitors are tested by the routine test by the producer
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:
1,1 x U_R max. 10% of the service period
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:
< 80V/µsec at U_R and +25°C
Max. peak current I_p: < C_R x dU/dt
Related standards: EN 60384-1, IEC 60384-1
Marking for purchase ordering:
MKP342S/1000 15µF±10% 1000V DC

Capacity C_R[µF]*	Dimensions +1[mm]						
	B	H	L	p	p1	d	Lv
15	40	50	58,5	53	20	1	6

***Other Capacitance on request**