

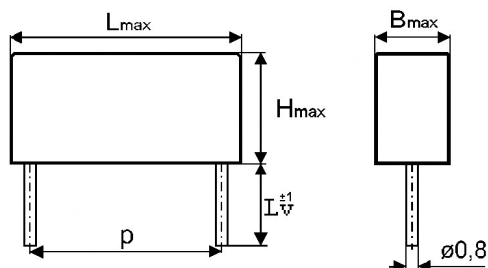


## KPI 341S CAPACITORS FOR AC & PULSE APPLICATIONS

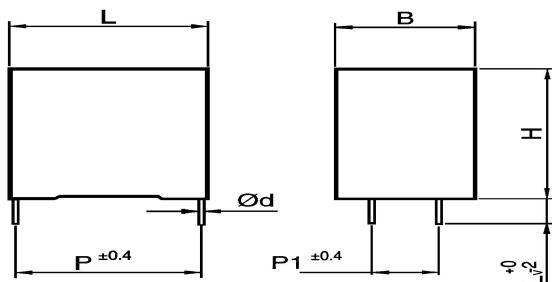


INFO

Construction A



Construction B



$L_v = 5^{\pm 1} \text{ mm}$

Capacity $C_R$ [uF]*	Dimensions *1 [mm]					ESR [mΩ] at 100kHz	dU/dt V/us**
	B	H	L	p	p1		
0,1	14	26	42,5	37,5	10	14	4500
0,15	14	26	42,5	37,5	10	12	4500
0,22	14	26	42,5	37,5	10	10	4500
0,33	17	28	42,5	37,5	10	8	4200
0,47	22	30	42,5	37,5	10	7	4200
0,68	28	37	42,5	37,5	20	6	4200
1,0	28	37	42,5	37,5	20	5	4000
1,5	30	45	42,5	37,5	20	5	3500
2,0	35	45	42,5	37,5	20	4	3000
2,5	40	50	58	52,5	20	3,5	3000
3,0	40	50	58	52,5	20	3	2500
3,3	40	50	58	52,5	20	3	2500
3,5	40	50	58	52,5	20	3	2500
3,9	40	50	58	52,5	20	3	2500
4,5	40	50	58	52,5	20	2,5	2400

\* Other Capacity on request \*\* at  $U_R$  and  $+25^\circ\text{C}$

### Construction:

Metal foil electrodes, polypropylene film dielectric, Non-inductive, self-healing construction, Plastic flame retardant case, epoxy resin sealed The leads: tinned cooper wire, simple or dual, p1 also on request

### Applications:

AC applications with high peak and RMS current loading, high pulse loading, High dU/dt snubber-applications.

### Technical data

**Rated voltage  $U_R$ :** 630DC

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:** 300V 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.

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

**Rated capacitance:** 0,1  $\pm$  4,5 $\mu$ F

**Tolerance:**  $\pm 20\%$ ,  $\pm 10\%$ , other tolerance. on request

**Dissipation factor  $\text{Tg}\delta$ :**  $< 0,0004$  at 1kHz and  $+25^\circ\text{C}$

**Insulation resistance  $R_{IS}$ :**  $> 30\ 000/\text{C}$  [MΩ]

**Operating temperature range:**  $-40 \div +85^\circ\text{C}$

The highest permissible capacitor temperature at the hottest point of the case must not exceed  $+70^\circ\text{C}$ .

**Max. permitted dissipation power of the capacitor** depend on the cooling conditions

**Test voltage between terminals:** 1400VDC, 1min at  $+25^\circ\text{C}$ , 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:

$1,1 \times U_R$  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:

3000V 50Hz, 1min. at  $+25^\circ\text{C}$

**Max. peak current  $I_p$ :**  $< C_R \times dU/dt$

**Related standards:** IEC 60384-1

### Marking for purchase ordering:

KPI341S 3uF $\pm 10\%$  1000V DC

**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.