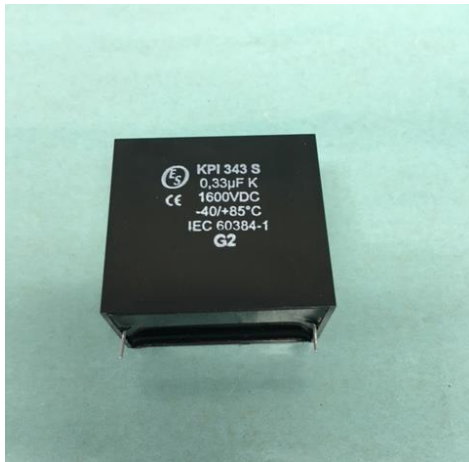
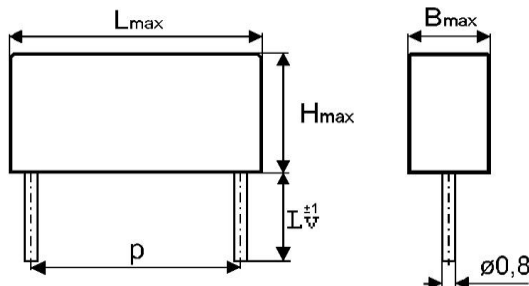




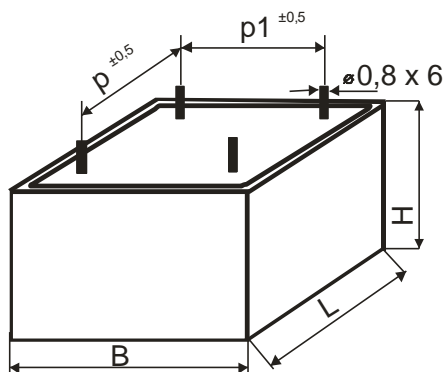
KPI 343S CAPACITORS FOR AC & PULSE APPLICATIONS



Construction A



Construction B



Lv = 6 mm

Capacity C _R [µF]*	Dimensions **[mm]					ESR[mΩ] at 100kHz	dU/dt V/µs**
	B	H	L	p	p1		
0,1	18	28,5	42,5	37,5	10	12	4500
0,15	18	28,5	42,5	37,5	10	10	4500
0,22	22	30	42,5	37,5	10	8	4500
0,33	28	37	42,5	37,5	10	6	4200
0,47	28	37	42,5	37,5	10	5	4200
0,68	30	45	42,5	37,5	20	4	4200
1,0	35	45	42,5	37,5	20	3,5	4000
1,5	40	50	58	52,5	20	3	3500
2,0	40	60	58	52,5	20	2,5	3500
2,5	40	60	58	52,5	20	2,5	3500

*Other Capacity on request ** at U_R and +25°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: 1600DC

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.

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

Rated capacitance: 0,1 ÷ 2,5µF

Tolerance: ±20%, ±10%, other tolerance. on request

Dissipation factor Tgδ: < 0,0004 at 1kHz and +25°C

Insulation resistance R_{IS}: >30 000/C [MΩ]

Operating temperature range: -40 ÷ +85°C

The highest permissible capacitor temperature at the hottest point of the case must not exceed +70°C.

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

Test voltage between terminals: 2000VDC, 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:

3000V 50Hz, 1min. at +25°C

Max. peak current I_p: < C_R x dU/dt

Related standards: IEC 60384-1

Marking for purchase ordering:

KPI343S 0,22µF±10% 1600V 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.