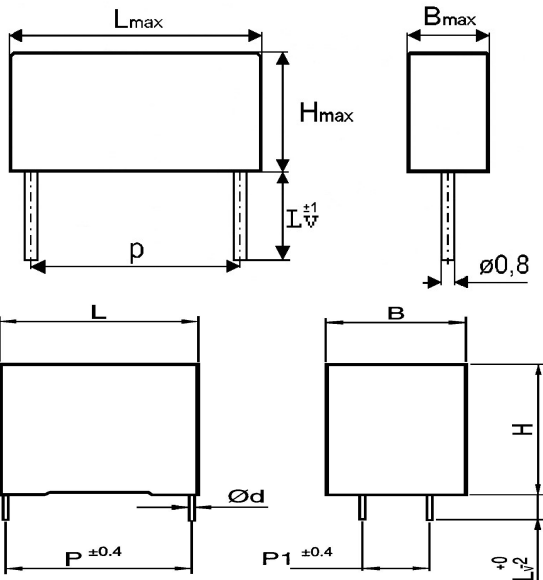




KPI 343S CAPACITORS FOR AC & PULSE APPLICATIONS



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.

Rated capacitance: 0,1 - 2,5 µF

Tolerance: ±5% on request and +25°C

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

Insulation resistance: $> 10^9 \Omega$

Operating temperature range: -40 to +70°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 : $< C_R \times dU/dt$

Related standards: IEC 60384-1

Marking for purchase ordering:

KPI343S 0,22µF±10% 1600V DC

Capacity C_R [µF]*	Dimensions ⁺¹ [mm]					ESR [mΩ] at 100kHz	dU/dt V/us**
	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

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.