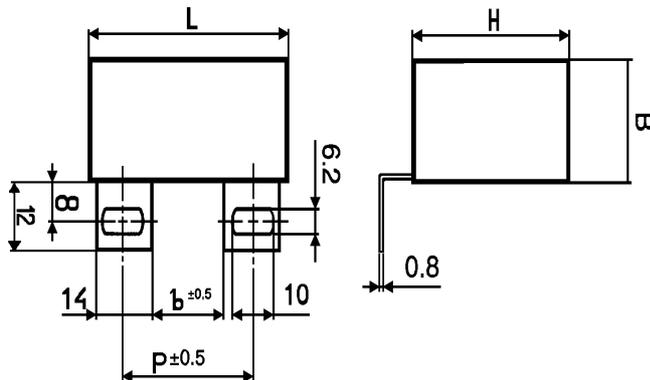


## CAPACITORS FOR AC & PULSE APPLICATIONS

### KPI 345/250



#### Construction B:



Capacit. $C_R$ [µF]*	Dimensions <sup>+1</sup> [mm]				
	B	H	L	p	$P_L$ [W]
3,3	21	30	42,5	18 ÷ 25	1,6
4,7	28	37	42,5	18 ÷ 25	2
6,8	28	37	42,5	18 ÷ 25	2
10	30	45	42,5	18 ÷ 25	2,5
15	30	45	42,5	18 ÷ 25	2,5
22	40	50	42,5	18 ÷ 25	3

Other capacitance on request

#### Construction:

Metalized film electrodes, polypropylene film dielectricum, Non-inductive, self-healing construction, Plastic flame retardant case, epoxy resin sealed

#### Applications:

AC applications with high peak and RMS current loading, high pulse loading, snubber applications. Directly mount to the IGBT module or across the Bus,

#### Technical data

**Rated voltage  $U_R$ :** 250VDC

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:** 160V 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:** 3,3 ÷ 22 µF

**Tolerance:** ±20%, ±10%, other tol. on request

**Dissipation factor  $Tg\delta$ :** < 0,001 at 1kHz and +25°C

**ESR:** at 100kHz and +25°C < 1mΩ

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

**Operating temperature range:** -40 ÷ +85°C on case

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:** 2000VDC, 2min 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.

#### Non Recurrent Surge Voltage:

$U_{PK}$  400V

If the overvoltages exceed the permissible value above, the capacitor might have been destroyed.

#### Test voltage between terminals and case:

2000VDC, 1min. at +25°C

#### Max. repetitive rate of voltage rise dU/dt:

< 25V/µsec at  $U_R$  and +25°C

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

**Related standards:** IEC 60384-1

#### Marking for purchase ordering:

KPI345 15µF±10% 250V 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.