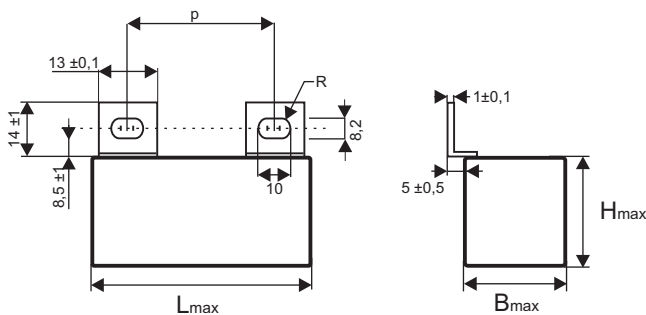
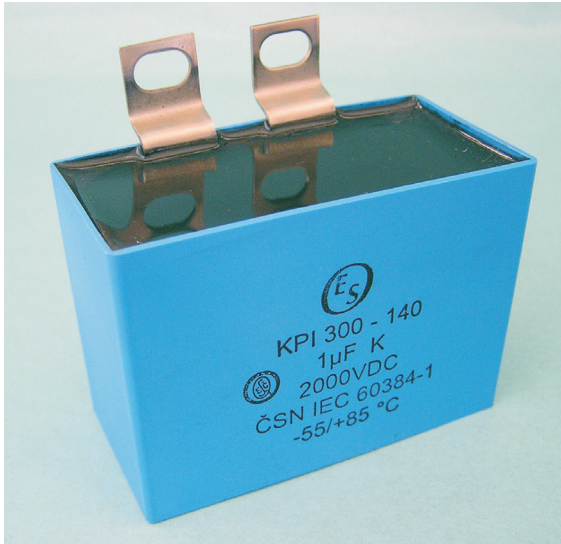


# KPI 300-140



Capacit. C <sub>R</sub> [µF]	U <sub>R</sub> [DC/AC]	Dimension <sup>+0.5</sup> [mm]			
		B	H	L	p
1,0	2000/660	35	50	70	25,5

## Construction:

Metallized polypropylene film, Non-inductive, self-healing construction. Plastic prismatic flame retardant case.

## Applications:

Snubber capacitors, all other AC and DC applications

## Technical data

### Rated voltage U<sub>R</sub>: 2000 VDC

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<sub>AC</sub>, the sum of DC and the amplitude of AC must not exceed the U<sub>R</sub>

### Max permissible AC voltage:

If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the max. loss power of the capacitor.

$$\text{Max. } U_{AC(f)} = \sqrt{\frac{P_L}{2\pi f C_R \times \text{tg}\delta}}$$

### Rated capacitance: 1,0 µF

Tolerance: 10%

Dissipation factor Tgδ: < 0,001 at 1kHz and +25°C

Insulation resistance R<sub>IS</sub>: >10 000/C [MΩ]

Operating temperature range: -55 ÷ +85°C

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<sub>L</sub>: depend on the cooling conditions.

Test voltage between terminals: 1,25 × U<sub>R</sub>, 1min. at +25°C

All capacitors are tested by the routine test by the manufacturer

### 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:

1,10 × U<sub>R</sub> max. 30% of the service period

1,15 × U<sub>R</sub> max. 30min./day

1,20 × U<sub>R</sub> max. 5min./day

1,30 × U<sub>R</sub> max. 1min./day

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:

< 1000V/µsec at U<sub>R</sub> and +25°C

Max. peak current I<sub>p</sub>: < C<sub>R</sub> × dU/dt

Terminals: special

Related standards: IEC 60384-1, IEC 60384-17

### Marking for purchase ordering:

KPI 300-140 1µF 10% 2000 VDC

**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.