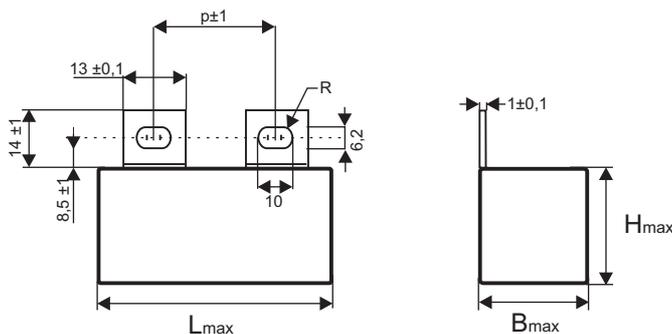


Special pulse capacitors

KPI 300-011



Capacit. C _R [µF]	U _R [DC]	Dimension [mm]			
		B	H	L	p
1,0	1000	26,5	39	58	22

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_R: 1000 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_{AC}, the sum of DC and the amplitude of AC must not exceed the U_R

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 µF

Tolerance: 10%, 5%

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

Insulation resistance R_{i,s}: >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_L: depend on the cooling conditions 4W.

Test voltage between terminals: 1,25 × U_R, 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_R max. 30% of the service period

1,15 × U_R max. 30min./day

1,20 × U_R max. 5min./day

1,30 × U_R 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_R and +25°C

Max. peak current I_p: < C_R × dU/dt

Terminals: special

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

Marking for purchase ordering: KPI 300-011

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.