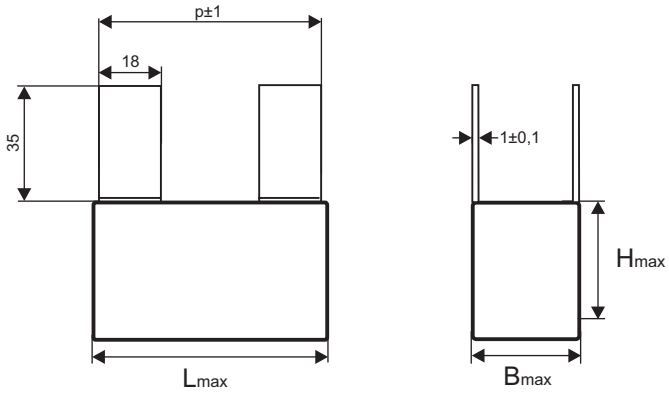
Special pulse capacitors KPI 300-012/2, KPI 300-012/3

Electronic components CZ
Syllabova 380/41, 703 00 OSTRAVA - Vítkovice
Phone: +420/ 595 781 623, 596 623 385
Fax: +420/ 595 781 612, 596 623 386
E - mail: eso@es-ostrava.cz
Web Site:http://www.es-ostrava.cz



Provedení KPI 300-012/2

Provedení KPI 300-012/3

Capacit. C_R [µF]	U_R [DC]	Dimension [mm]			
		B	H	L	p
1,0	1000	26,5	39	58	57,5

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_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_{IS}: >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 2,5W.
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 300-012/2
KPI 300-012/3

Warning! The manufacturer is not responsible for any damages, caused by the improper installation and application. Before using the capacitor in any application, pleas, read carefully this technical data-sheet.