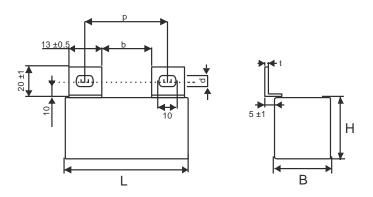
Elektronické součástky CZ, a.s.

KPI300-219 CAPACITORS FOR AC & PULSE APLICATIONS



Dimensions [mm]



Capacity	Dimensions ^{±1} [mm]							ESR
Capacity C _R [μF]*	В	Н	L	р	d	b	t	[mΩ]
4,7	50	45	75	37	8,2	24	1	3,0

^{*}Other Capacity on request

Construction:

Double-side metallized electrodes, polypropylene film dielectric, 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, High dU/dt snubber applications. Directly mount to the IGBT module or across the Bus

Technical data

Rated voltage U_R: 1000DC

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: 400V 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.

$$U_{\text{MAX}} = \sqrt{\frac{P_{L}}{2\pi \times f \times C_{\text{R}} \times tgD}}$$

Rated capacitance: $4,7\mu F$, other capacity on request

Tolerance: ±10%

other tolerance on request

Dissipation factor Tg \dot{S} : < 0,0004 at 1kHz and +25°C ESL: at resonant frequency and+25°C < 30nH Insulation resistance R_{Is}: 30 000/C [M Ω , uF] Operating temperature range: -40 \div +85°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 P_L

depend on the cooling conditions

Test voltage between terminals: 1600VDC, 2sec at +25°C, All capacitors are tested by the routine test by the producer

Protection against Over-voltages:

The capacitors are self-healing and regenerate themselves after occasional breakdowns. The capacitor remains fully functional after the breakdown.

Permitted Over-voltages in working conditions:

1,1 x U_R max. 10% of the service period

If the Over-voltages 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:

< 35V/µsec at U_R and +25°C

Max. peak current I_p: < C_R x dU/dt

Related standards: IEC 60384-1 Marking for purchase ordering:

KPI300-219 4,7μF±10% 1000V DC

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 datasheet.