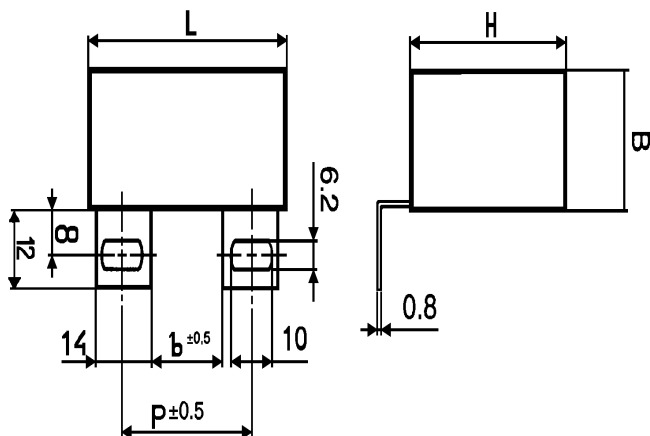
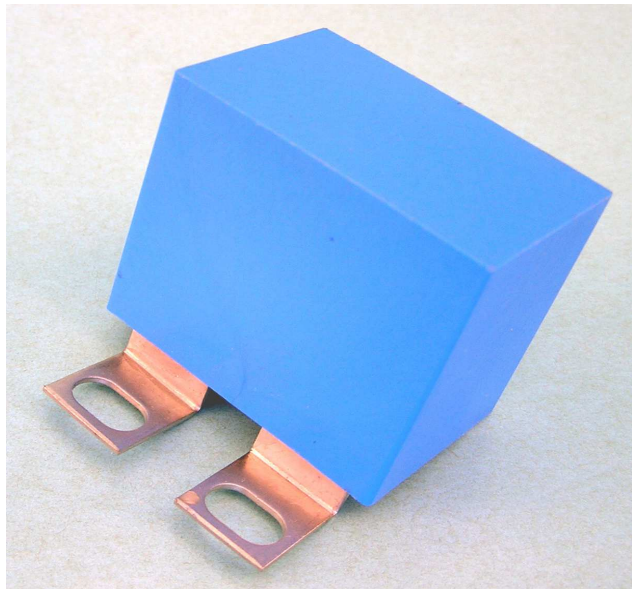


**KPI 348SV CAPACITORS FOR AC & PULSE APPLICATIONS**



Capacity C <sub>R</sub> [μF]*	Dimensions <sup>+1</sup> [mm]					I <sub>RMS</sub> [A]
	B	H	L	p	b	
1,0	30	45	43	27,5	13±0,5	25

\*Other Capacity on request

**Construction:**

Metal foil 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<sub>R</sub>:** 1200DC

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:** 550V 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.

**Rated capacitance:** 0,1±1μF, other capacity on request

**Tolerance:** ±10%, ±5%, other tolerance on request

**Dissipation factor Tgδ:** < 0,0006 at 1kHz and +25°C

**ESR:** at 100kHz and +25°C < 7mΩ

**Insulation resistance R<sub>IS</sub>:** 30 000/C [MΩ, uF]

**Operating temperature range:** -40 ÷ +70°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<sub>L</sub>:** 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<sub>R</sub> 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:**

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

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

**Related standards:** IEC 60384-1

**Marking for purchase ordering:**

KPI348SV 1,0μF±10% 1200V 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.