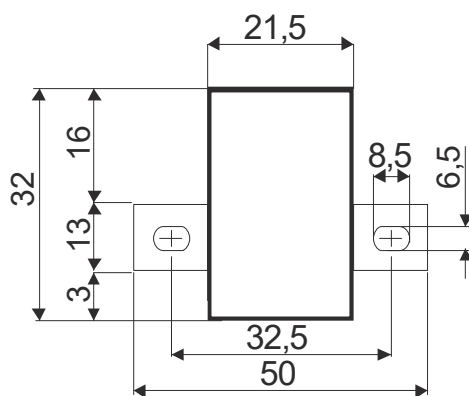
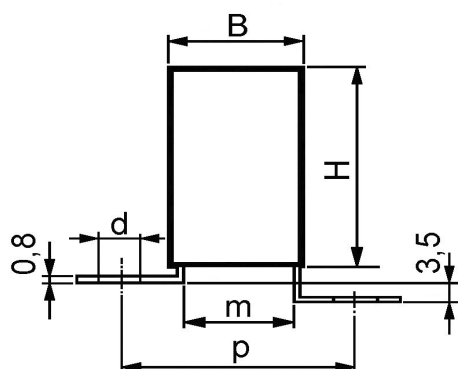
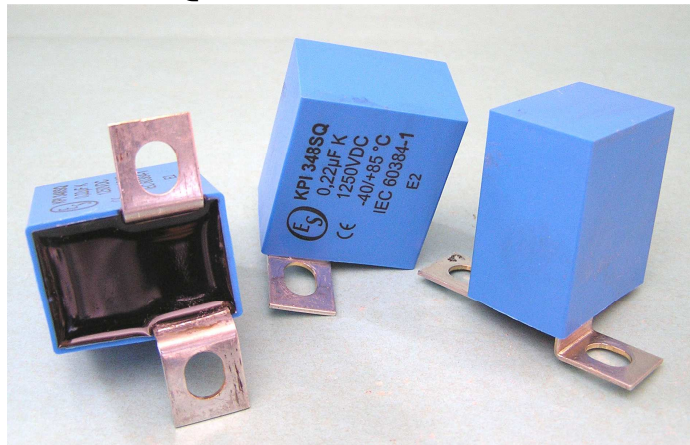




## KPI 348SQ 1250VDC CAPACITORS FOR AC & PULSE APPLICATIONS



Capacity $C_R[\mu F]^*$	Dimensions <sup>+1</sup> [mm]						axb or d <sup>**</sup>
	B	H	L	m	p		
0,22	21,5	37,5	32	16,5	32,5	6,5	8

\*Other Capacity on request

\*\* Hole oval, round 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  $U_R$ :** 1250DC

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:** 600V 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÷1 $\mu F$ , other capacity on request

**Tolerance:**  $\pm 10\%$ ,  $\pm 5\%$ , other tolerance on request

**Dissipation factor  $Tg\delta$ :**  $< 0,0006$  at 1kHz and  $+25^\circ C$

**ESR:** at 100kHz and  $+25^\circ C < 8m\Omega$

**Insulation resistance  $R_{is}$ :** 30 000/C [ $M\Omega$ ,  $\mu F$ ]

**Operating temperature range:**  $-40 \div +70^\circ C$

The highest permissible capacitor temperature at the hottest point of the case must not exceed  $+70^\circ C$ .

**Max . permitted dissipation power of the capacitor**

**$P_L$ :** depend on the cooling conditions

**Test voltage between terminals:** 1600VDC, 2sec

at  $+25^\circ C$ , 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  $+25^\circ C$

### Max. repetitive rate of voltage rise dU/dt:

$< 1000V/\mu sec$  at  $U_R$  and  $+25^\circ C$

**Max. peak current  $I_p$ :**  $< C_R \times dU/dt$

**Related standards:** IEC 60384-1

### Marking for purchase ordering:

KPI348SQ 0,22 $\mu F \pm 10\%$  1250V 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.