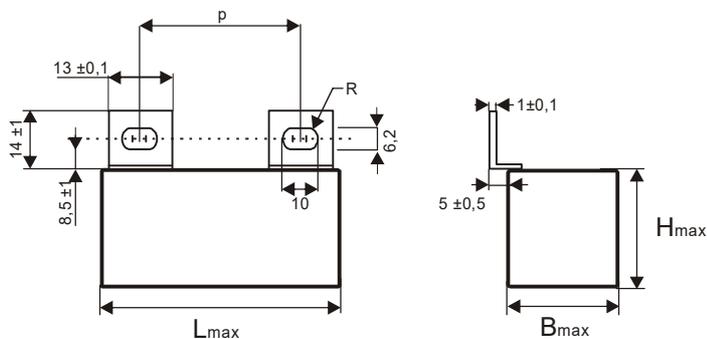




## KPI 348SR CAPACITORS FOR AC & PULSE APPLICATIONS



INFO



$C_R$ [µF]*	Dimensions *1 [mm]				ESR [mΩ]	$I_{RMS}$ [A] ***
	B	H	L	p**		
0,68	27	40	58	27,5	<2,5	
0,75	35	45	58	27,5±41,5 ±0,5	<2,5	
1,0	35	45	58	27,5	<2,5	
1,5	40	50	58	27,5	<2,5	
2,0	40	60	58	27,5	<2,5	46
2,5	50	60	58	27,5	<2,5	50

\*Other Capacity on request

\*\* Other p on request

\*\*\*  $I_{RMS}$  at  $T_a < 40^\circ\text{C}$

### 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 $U_R$ : 1600VDC

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: 0,68 ÷ 2,5µF

Tolerance: ±20%, ±10%, ±5%, other tol. on request

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

ESR: at 100kHz and +25°C see Table

Insulation resistance  $R_{IS}$ : 30 000/C [MΩ, µF]

Operating temperature range: -40 ÷ +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: depend on the construction of the circuit and the cooling conditions of the capacitor

Test voltage between terminals: 2000VDC, 1min 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:

< 3500V/µsec at  $U_R$  and +25°C

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

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

### Marking for purchase ordering:

KPI348SR 0,75µF±10% 1600V 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.