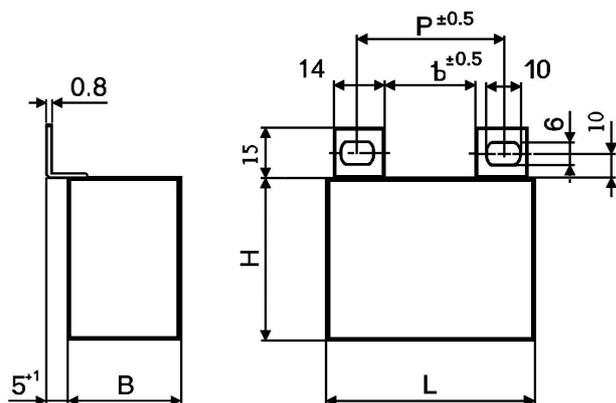


KPST CAPACITORS FOR AC & PULSE APPLICATIONS



C _R [μF]*	Dimensions ⁺¹ [mm]					ESR[mΩ]	I _{RMS} [A]
	B	H	L	p			
2,0	40	60	58	27,5	2,5	46	

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: 1600DC

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: 1 ÷ 2μF

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

Dissipation factor Tgδ: < 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 x dU/dt

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

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.