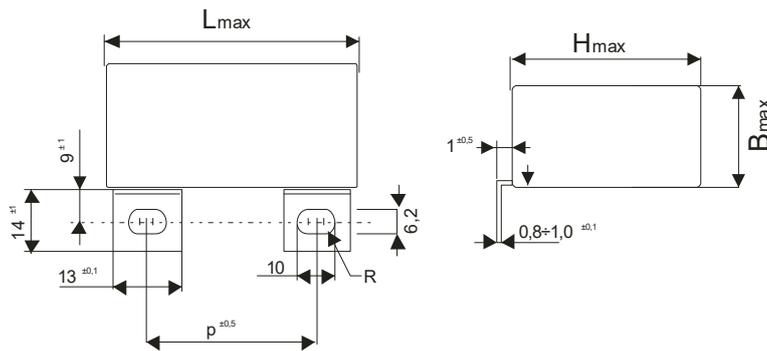




MKP345/800

CAPACITORS FOR DC OR AC AND PULSE APPLICATIONS



Holes round d=6,2 or oval 6,2x10mm

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.

Construction:

Metalized polypropylene film electrodes, Non-inductive, self-healing construction, Plastic flame retardant case, epoxy resin sealed

Applications:

DC and AC applications with pulse loading, snubber applications.

Directly mount to the IGBT module or across the Bus

Technical data

Rated voltage U_R : 800DC

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.

$$U_{MAX} = \sqrt{\frac{P_L}{2\pi \times f \times C_R \times tgD}}$$

Rated capacitance: 4 ÷ 12µF

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

Dissipation factor $Tg\delta$: < 0,0003 at 1kHz and +25°C

ESR: at 100kHz and +25°C < 4mΩ

Insulation resistance R_{is} : 30 000/C [MΩ, uF]

Operating temperature range: -55 ÷ +105°C

The highest permissible capacitor temperature at the hottest point of the case must not exceed +105°C.

Test voltage between terminals: 1200VDC, 1min at +25°C, All capacitors are tested by the routine test by the producer

Protection against Overvoltages:

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

Permitted Overvoltages in working conditions:

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

If the Overvoltages 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:

< 80V/µsec at U_R and +25°C

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

Related standards: IEC 60384-1

Marking for purchase ordering:

MKP345/800 12µF±10% 800V DC

Capacity C_R [µF]*	Dimensions *1[mm]					I _{rms} max 50kHz		
	B	H	L	p	t	Ta:25°C	50	85
12	40	50	42,5	26	1,0	34	26	12

*Other Capacitance on request