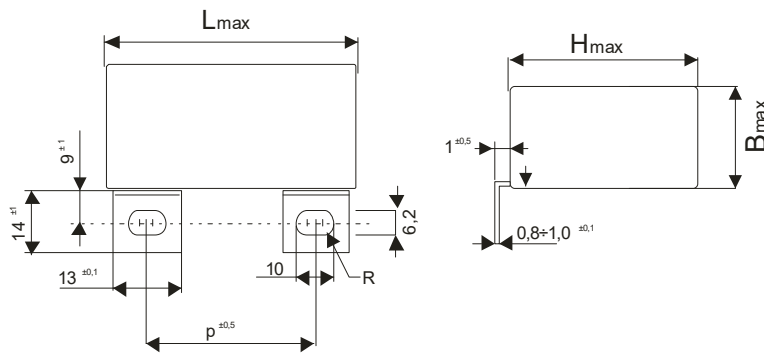




## MKP345/800

### 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 <sub>rms</sub> 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