

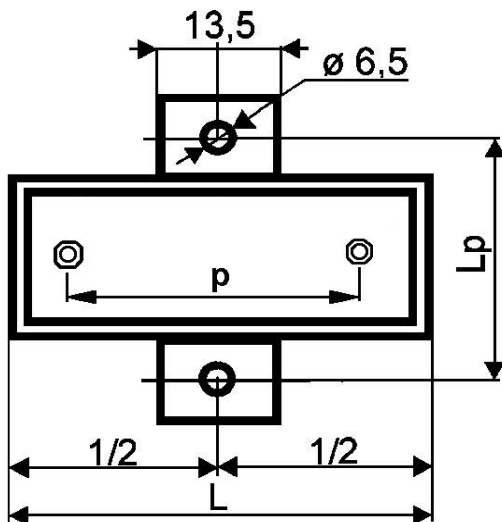
## CAPACITORS FOR AC & PULSE APPLICATIONS

### MKPI 339SD



INFO

#### Dimensions:



#### Construction:

Double side metalized film electrodes, internal series connection, polypropylene film dielectric, Non-inductive, self-healing construction, Plastic flame retardant case UL94-V0, epoxy resin sealed

#### Applications:

AC applications with high peak and RMS current loading, high pulse loading, snubber applications. Directly mount across the Bus,

#### Technical data

**Rated voltage  $U_R$ :** 2000VDC

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:** 630VAC 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.

**Tolerance:**  $\pm 20\%$ ,  $\pm 10\%$ ,  $\pm 5\%$ ,

other tolerance on request

**Dissipation factor  $Tg\delta$ :**  $< 0,0006$  at 1kHz and  $+25^\circ\text{C}$ , typical value  $< 0,0004$  at 1kHz

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

**Operating temperature range:**  $-40 \div +85^\circ\text{C}$

**Max permissible ambient temperature:**  $+70^\circ\text{C}$  on the surface of the case. The highest permissible capacitor temperature at the hottest point of the case must not exceed  $+85^\circ\text{C}$ .

**Test voltage between terminals:** 2500VDC, 1min at  $+25^\circ\text{C}$ . 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.

**Non Recurrent Surge Voltage:**  $U_{PK} < 1,1 \times U_R$

If the Overvoltages exceed the permissible value above, the capacitor might have been destroyed.

**Test voltage between terminals and case:**

3000VDC, 1min. at  $+25^\circ\text{C}$

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

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

$C_R$ [ $\mu\text{F}$ ]*	Dimensions <sup>*1</sup> [mm]				dU/dt V/us	ESR at 100kHz [m $\Omega$ ]
	B	H	L	p		
0,1	28	37	42,5	20	600	12
0,15	25	45	42,5	20	600	10
0,22	25	45	42,5	20	600	6
0,33	30	45	42,5	20	600	5
0,47	35	45	42,5	20	600	4
0,68	40	50	42,5	20	500	4
0,82	40	50	42,5	20	500	4
1,0	50	60	58	30	400	3

\*Other capacity on request, \*\*Other p on request

**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.

**Marking for purchase ordering, sample:**

MKPI339S 3 $\mu\text{F} \pm 10\%$  2000V DC