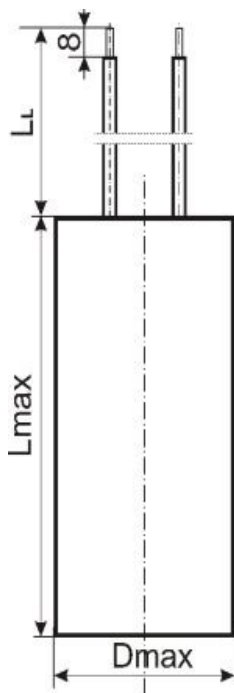


KPI 300 – 047T Capacitors for AC & Pulse applications



Construction:

Metal foil electrodes, polypropylene film dielectricum, Non-inductive, self-healing construction, Tubular plastic case, flame retardand , epoxy resin sealed Insulated stranded-wire leads

Applications:

AC applications with high peak voltage and current loading. The capacitors are suitable for driving of stepping-motors

Technical data

Rated voltage U_R : 1200 VDC

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

Rated capacitance: $0,5 \div 3\mu F$

Tolerance: $\pm 10\%$, $\pm 5\%$, other tolerance on request

Dissipation factor $Tg\delta$: $< 0,001$ at 1kHz and $+25^\circ C$

Insulation resistance R_{IS} : 30 000/C [M Ω]

Operating temperature range: $-40 \div +70^\circ C$

The highest permissible capacitor temperature at the hottest point of the case must not exceed $+70^\circ C$.

Test voltage between terminals: 1500VDC, 1min, at $25^\circ C$, All capacitors are tested by the routine test by the producer

Expected service life: min. 10 000h

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:

$1,1 \times U_R$ 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 $+25^\circ C$

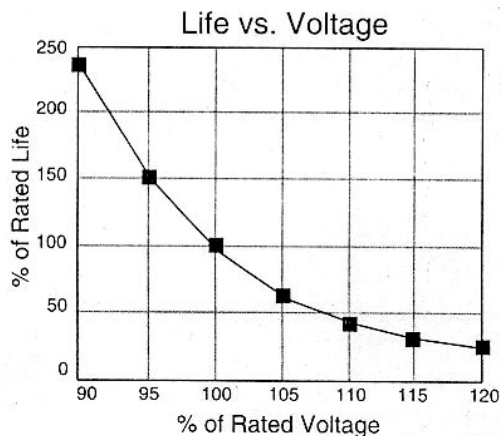
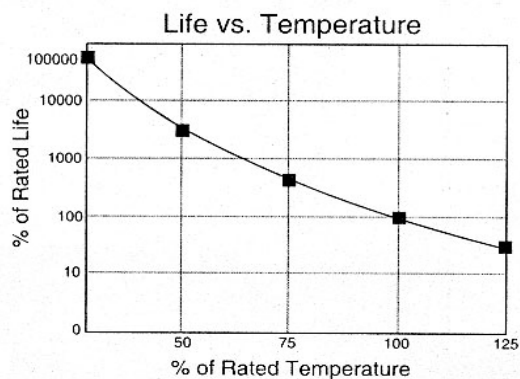
Max. repetitive rate of voltage rise dU/dt :

$< 1000V/\mu sec$ at U_R and $+25^\circ C$

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

Related standards: IEC 60384-1

Influence of temperature and working voltage on expected service-life



[uF]	Dimensions [mm]				Weight of capacitor [g]
	D	L	Lv*	s [mm ²]	
0,5	25	58	100	0,5	
1,0	30	58	100	0,75	
1,5	35	58	100	0,75	
2,0	40	58	100	0,75	
2,5	45	58	100	0,75	
3,0	55	58	100	0,75	

* Other Lv 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:

KPI 300-047T 1uF $\pm 10\%$ 1200V DC, $L_V=?$