

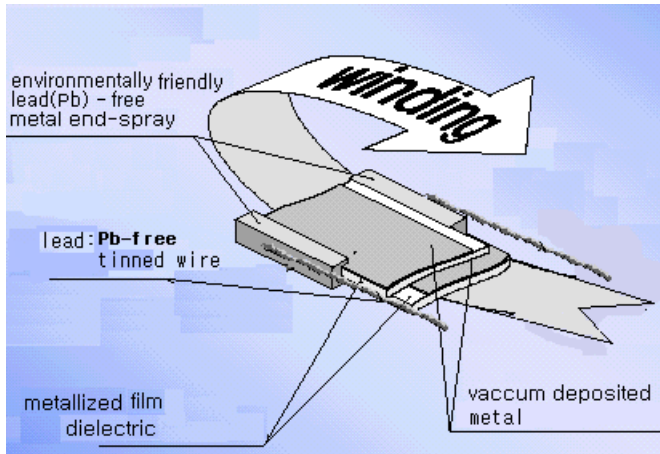
[1] Features

- ① Cost efficient
- ② Small and compact
- ③ Self-healing property avoiding short circuit.

[2] Typical applications

- ① Single phase AC induction(Small fractional horse power)motor run.
- ② General 50/60Hz application,but not be used at higher frequency or in applications higher frequency harmonics are present.

[3] Construction



RoHS Compliant

Non-inductively wound self-healing metallized polyester film winding is powder molded flame retardant epoxy resin(UL94V-O) multi dipped.

Pb-free tinned leads are electrically welded on the winding.

[4] Specifications

[1] General data

Applicable standard	IEC60252,JIS C4908
Rated voltage(URAC)	180VAC,250VAC,350VAC,430VAC
Capacitance range	1.0uF~10.0uF
Capacitance tolerance	+ 10~ -5%(U),±10%(K),±5%(J)
Max. permissible temperature	+60℃
Min. ambient temperature	-25℃
Life expectancy	25D(25,000h)

[2] Electrical data

AC withstand voltage	between terminals	1.75URAC for 10sec.
	the collected terminals and case	2,000 VAC for 60sec.
Dissipation factor(DF)	0.40% max. at 20℃,50/60hz,URAC	
Rated frequency	50/60hz.	
Insulation resistance	≥ 2,000MΩ at 20℃,between the collected terminals and the case. 500VDC,1 min.	
Max. permissible voltage	1.1 URAC	
Max. permissible current	1.3 rated current	
Max. permissible VA	1.35 rated VA	

$$*rated\ current(A)= 2\pi f(hz)C(uF)URAC(VAC) \times 10^{-6}$$

$$*rated\ VA(Var)=2\pi f(hz)C(uF)URAC^2(VAC) \times 10^{-6}$$

[3] Environmental test data

Item	Test conditions	Test criteria
Damp heat test	40±3℃,R.H.:90~95% for 500±12 hours	① Rins: ≥ 0.5 x specified value in [2] Electrical data. ② Increase in DF at 75±3℃: ≤ 0.05% ③ $\frac{C}{C_0}$: ≤ ±5% of initial value
Endurance test	60±3℃ applying 1.25URAC for 800 hours	① Increase in DF at 75±3℃: ≤ 0.05% ② $\frac{C}{C_0}$: ≤ ±5% of initial value

[5] Marking

URAC,Capacitance & tolerance are marked on the capacitor.

[6]Ordering/part number information

MLC	922	P0	N	25	455	K
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(1) (2) (3) (4) (5) (6) (7)

- (1)AC capacitor for electrical appliance
- (2)Shape of capacitor(non-inductive wound,radial epoxy dipped.)
- (3)Safety class:without PSI
- (4)Operating temperature:-25℃~+60℃
- (5)URAC:expressed in tens of volts of AC,for example 25=250VAC
- (6)Capacitance in pF:first 2 figures indicating the pF,last figure indicating numbers of zeros to be added to the pF.

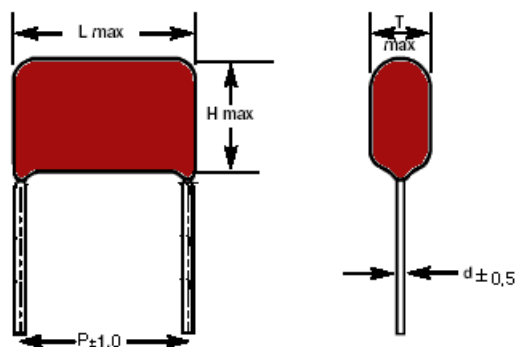
The letter D indicates ½uF for capacitors 10.5uF and above.

For example: 4,500,000pF= 4,500nF= 4.5uF=455

12,500,000pF=12,500nF=12.5uF=12D

(7)Capacitance tolerance:±10%

[7]Dimensions in mm



URAC:180Vrms(50/60Hz)

uF	L	H	T	d
pitch 22.5mm				
1.0	26.5	16.5	7.5	0.8
1.5	26.5	18.0	9.0	0.8
2.0	26.5	20.0	10.0	0.8
2.5	26.5	21.0	11.5	0.8
3.0	26.5	22.0	12.5	0.8
3.5	26.5	23.0	13.5	0.8
4.0	26.5	24.5	14.5	0.8
pitch 27.5mm				
4.5	31.5	23.0	13.5	0.8
5.0	31.5	24.0	14.0	0.8
5.5	31.5	25.0	15.0	0.8
6.0	31.5	25.5	16.0	0.8
6.5	31.5	26.0	16.5	0.8
7.0	31.5	27.0	17.0	0.8
pitch 32.5mm				
7.5	37.0	25.5	16.0	0.8
8.0	37.0	26.0	16.5	0.8
8.5	37.0	27.0	17.0	0.8
9.0	37.0	27.0	17.5	0.8
9.5	37.0	27.5	18.0	0.8
10.0	37.0	28.0	18.5	0.8

URAC:250Vrms(50/60Hz)

uF	L	H	T	d
pitch 22.5mm				
1.0	26.5	19.5	10.0	0.8
1.5	26.5	21.5	12.0	0.8
2.0	26.5	23.0	14.0	0.8
pitch 27.5mm				
2.5	31.5	23.0	13.5	0.8
3.0	31.5	24.5	15.5	0.8
3.5	31.5	26.0	16.5	0.8
4.0	31.5	27.0	17.5	0.8
pitch 32.5mm				
4.5	37.0	26.0	17.0	0.8
5.0	37.0	27.0	17.5	0.8
5.5	37.0	28.0	18.5	0.8
6.0	37.0	29.5	19.5	0.8
6.5	37.0	30.0	20.0	0.8

URAC:350Vrms(50/60Hz)

uF	L	H	T	d
pitch 27.5mm				
1.0	31.5	24.0	14.0	0.8
pitch 32.5mm				
1.5	37.0	25.5	15.5	0.8
2.0	37.0	27.5	18.0	0.8

URAC:430Vrms(50/60Hz)

uF	L	H	T	d
pitch 32.5mm				
1.0	37.0	25.0	16.0	0.8
1.5	37.0	29.0	19.5	0.8

*For further details,refer to [General technical information of AC film capacitors for electrical appliances](#)

