

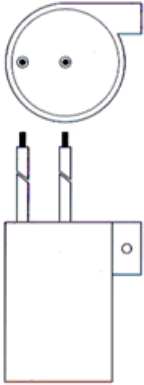
[1] Features

- ① Self-healing property avoiding short circuit.
- ② Low loss.
- ③ High operating temperature.
- ④ Dry technology:no leakage risk.
- ⑤ The plastic case eliminates any risk of dents or corrosion,no need for grounding.

[2] Typical applications

- ① Single phase AC induction(Small fractional horse power,washing machine,water pump)motor run.
- ② Fluorescent ballast efficiency
- ③ General 50/60Hz application,but not be used at higher frequency or in applications higher frequency harmonics are present.

[3] Construction



① **Winding** :non-inductively wound self-healing metallized polypropylene film.

② **Style** :The winding is sealed in a thermo-plastic case with epoxy fill.

The case and the epoxy are flame proof ,self-extinguishing(UL 94V).

③ **Terminal** :18 AWG strand wire leads with insulation,200mm lead length standard .

Other lead lengths available, upon request.

[4] Specifications

① General data

Applicable standard	IEC60252,JIS C4908
Rated voltage(URAC)	250VAC,350VAC,450VAC
Capacitance range	0.5uF~18.0uF
Capacitance tolerance	+ 10~ -5%(U),±10%(K),±5%(J),±3%(W)
Max. permissible temperature	+85℃
Min. ambient temperature	-25℃
Life expectancy	40D(40,000h)

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)	0.20% 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)= $2\pi f(\text{hz})C(\text{uF})URAC(\text{VAC}) \times 10^{-6}$

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

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 90±3℃: ≤ 0.05% ③ $\frac{C}{C_0}$: ≤ ±5% of initial value
Endurance test	85±3℃ applying 1.25URAC for 800 hours	① Increase in DF at 90±3℃: ≤ 0.05% ② $\frac{C}{C_0}$: ≤ ±5% of initial value

[5] Marking

URAC,Capacitance & tolerance are marked on the capacitor.

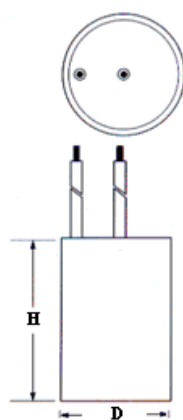
[6]Ordering/part number information

MLC	06	P0	Z	25	455	K	-	-	R	C
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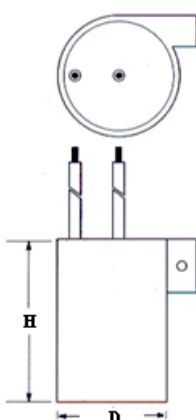
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)

- (1)AC capacitor for electrical appliance
- (2)Shape of capacitor(cylindrical,plastic case)
- (3)Safety class:without PSI
- (4)Operating temperature:-25℃~+85℃
- (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%
- (8)internal use
- (9)internal use
- (10)Option(Discharge resistor):R
- (11)Option(Fixing tab): W(on wing),
No code for no Fixing tab, W for Fixing tab on wing, F for Fixing tab on foot.

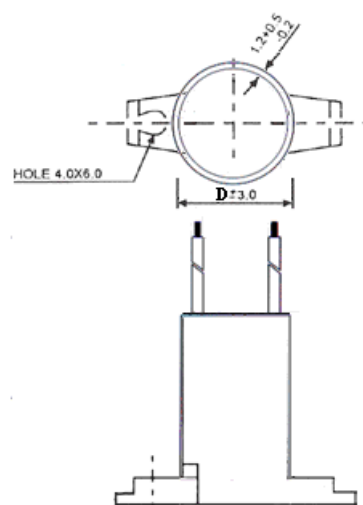
[7]Dimensions in mm



No code:no fixing tab



W:fixing tab on wing



F:fixing tab on foot

URAC:250Vrms(50/60Hz)

uF	D	H
1.0	19.0	30.0
2.0	21.0	30.0
3.5	25.0	41.0
4.5	25.0	41.0
6.0	25.0	41.0
9.5	26.0	51.0
12.0	27.0	59.0
15.0	30.0	60.0
18.0	35.0	60.0

URAC:350Vrms(50/60Hz)

uF	D	H
0.5	19.0	30.0
1.0	21.0	30.0
2.0	25.0	41.0
3.5	26.0	51.0
4.5	26.0	51.0
6.0	27.0	59.0
9.5	35.0	60.0
12.0	35.0	60.0
15.0	40.0	60.0

URAC:450Vrms(50/60Hz)

uF	D	H
0.5	19.0	30.0
1.0	25.0	41.0
2.0	26.0	51.0
3.5	27.0	59.0
4.5	30.0	60.0
6.0	35.0	60.0
9.5	40.0	60.0
12.0	45.0	60.0

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