MLC922P0Z

Powder epoxy dipped,metallized polypropylene AC film capacitors for electrical appliances.

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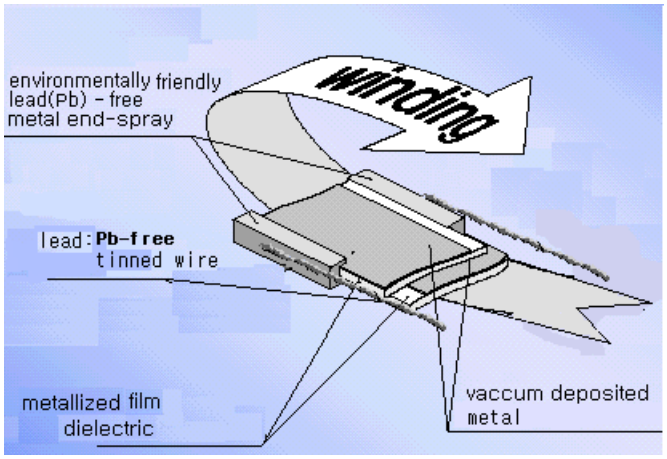
[1] Features

1 Self-healing property avoiding short circuit.
2 Low loss.
3 High operating temperature

[2]Typical applications

1 Single phase AC induction(Small fractional horse power,Fan)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 polypropylene 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)	200VAC,250VAC
Capacitance range	0.5uF~12.0uF
Capacitance tolerance	＋10~ -5%(U),±10%(K),±5%(J)
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)= $2\pi f(hz)C(uF)U_{RAC}(VAC) \times 10^{-6}$
*rated VA(Var)=$2\pi f(hz)C(uF)U_{RAC}^2(VAC) \times 10^{-6}$

3 **Environmental test data**

Item	Test conditions	Test criteria
Damp heat test	40±3℃,R.H.:90~95% for 500±12 hours	①Rins:≥0.5 x specified value in 2Electrical data. ②Increase in DF at 90±3℃:≤0.05% ③ $\frac{\Delta C}{C}$:≤±5% of initial value
Endurance test	85±3℃ applying 1.25URAC for 800 hours	①Increase in DF at 90±3℃:≤0.05% ② $\frac{\Delta C}{C}$:≤±5% of initial value

[5]Marking

URAC,Capacitance & tolerance are marked on the capacitor.

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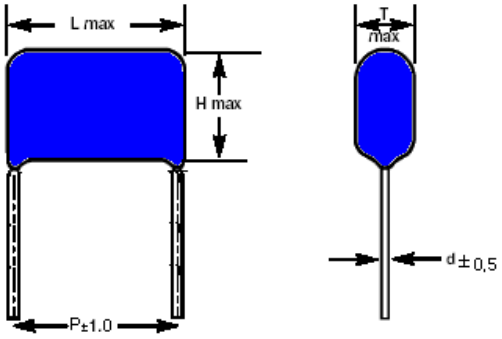
[6]Ordering/part number information

MLC	922	P0	Z	25	455	K
(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℃~+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%

[7]Dimensions in mm



URAC:200Vrms(50/60Hz)

uF	L	H	T	d
pitch 22.5mm				
0.5	26.5	15.5	5.5	0.8
1.0	26.5	17.0	7.0	0.8
1.5	26.5	18.0	8.5	0.8
2.0	26.5	19.5	9.5	0.8
2.5	26.5	20.5	10.5	0.8
3.0	26.5	21.5	11.5	0.8
pitch 27.5mm				
3.5	32.0	20.5	11.0	0.8
4.0	32.0	21.5	11.5	0.8
4.5	32.0	22.0	12.5	0.8
5.0	32.0	23.5	12.5	0.8
pitch 32.5mm				
6.0	36.0	23.5	12.0	0.8
7.0	36.0	24.5	13.0	0.8
8.0	36.0	25.5	14.0	0.8
9.0	36.0	27.5	14.5	0.8
10.0	36.0	28.0	15.0	0.8

URAC:250Vrms(50/60Hz)

uF	L	H	T	d
pitch 22.5mm				
0.5	26.5	16.0	6.0	0.8
1.0	26.5	17.5	8.0	0.8
1.5	26.5	19.0	9.5	0.8
2.0	26.5	20.5	10.5	0.8
2.5	26.5	22.0	12.0	0.8
pitch 27.5mm				
3.0	32.0	21.5	11.5	0.8
3.5	32.0	22.0	12.5	0.8
4.0	32.0	24.0	12.5	0.8
4.5	32.0	25.0	13.5	0.8
5.0	32.0	25.5	14.0	0.8
pitch 32.5mm				
6.0	36.0	25.5	14.0	0.8
7.0	36.0	27.5	14.5	0.8
8.0	36.0	28.5	15.5	0.8
9.0	36.0	29.5	16.5	0.8
10.0	36.0	30.5	17.5	0.8
12.0	36.0	31.5	18.5	0.8

*For further details,refer to General technical information of AC film capacitors for electrical appliances

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