



CPTC Thermistor

PRODUCT DATA

■ Switching

● Features

1. For lighting applications
2. For frequent switching
3. Small size
4. Low, medium and high resistance ratings
5. Delay time are ratings
6. Stable over a long life

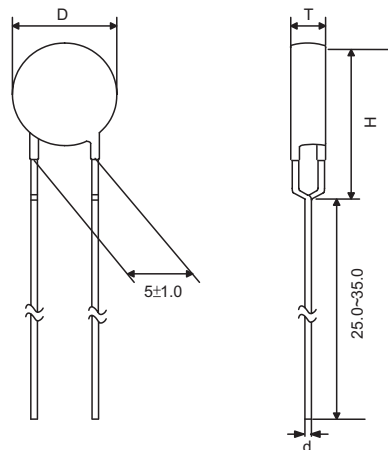
● Recommended Applications

1. Electronic ballast for lamps, switching



● Dimensions

PLA Series



(Unit: mm)



● Characteristics

PLA Series

Part No.	Curie Temperature	Nominal Zero-power Resistance	Withstanding Voltage	Maximum Current	Dimensions			
	T _c (°C)	R ₂₅ (Ω)	V _W (V)	I _{max} (mA)	D(mm)	T(mm)	d±0.02(mm)	H _{max} (mm)
PLA03101□**D2	(60/80/100/120) ±10	100	420	200	3.0~4.5	3.5~4.5	0.5	8.5
PLA03151□**D2		150	420					
PLA03221□**D2		220	420					
PLA03331□**E0		330	500					
PLA03471□**E0		470	500					
PLA03681□**E0		680	500					
PLA03102□**F0		1000	600					
PLA03152□**F0		1500	600					
PLA03222□**F0		2200	600					
PLA03332□**F0		3300	600					
PLA03472□**F0		4700	600					
PLA04680□**D2		68	420					
PLA04101□**D2	100	420						
PLA04151□**D2	150	420						
PLA04221□**E0	220	500						
PLA04331□**E0	330	500						
PLA04471□**F0	470	600						
PLA04681□**F0	680	600						
PLA04102□**F0	1000	600						
PLA04152□**F0	1500	600						
PLA04222□**F0	2200	600						
PLA04332□**F0	3300	600						
PLA05680□**D2	68	420	400	5.0~6.5	3.5~4.5	0.6	10.5	
PLA05101□**D2	100	420						
PLA05151□**D2	150	420						
PLA05221□**E0	220	500						
PLA05331□**E0	330	500						
PLA05471□**F0	470	600						
PLA05681□**F0	680	600						
PLA05102□**F0	1000	600						
PLA05152□**F0	1500	600						
PLA05222□**F0	2200	600						
PLA05332□**F0	3300	600						
PLA06680□**D5	68	450						600
PLA06101□**E0	100	500						
PLA06151□**E0	150	500						
PLA06221□**F0	220	600						
PLA06331□**F0	330	600						
PLA06471□**F0	470	600						



Part No.	Curie Temperature	Nominal Zero-power Resistance	Withstanding Voltage	Maximum Current	Dimensions			
	T _c (°C)	R ₂₅ (Ω)	V _W (V)	I _{max} (mA)	D(mm)	T(mm)	d±0.02(mm)	H _{max} (mm)
PLA06681□**F5	(60/80/100/120) ±10	680	650	600	5.5~7.5	3.5~4.5	0.6	11.5
PLA06102□**F5		1000	650					
PLA06152□**F5		1500	650					
PLA06222□**F5		2200	650					
PLA07680□**D5		68	450	800	6.5~8.5	3.5~4.5	0.6	12.5
PLA07101□**E0		100	500					
PLA07151□**E0		150	500					
PLA07221□**F0		220	600					
PLA07331□**F0		330	600					
PLA07471□**F0		470	600					
PLA07681□**F5		680	650					
PLA07102□**F5		1000	650					
PLA07152□**F5		1500	650					
PLA07222□**F5		2200	650					

Note1: □=Tolerance of R₂₅

Note2: **= Code of T_c : P6, P8, A0 or A2.



● Reliability Test

Item	Test Condition / Methods	Standard
Resistance to Soldering Heat	Temperature: $350 \pm 5^\circ\text{C}$ Duration: 3~4 s	IEC60068-2-20 Test T _b
Robustness of Termination	Tensile, bending and torsion tests as appropriate to type termination	IEC60068-2-21
Rapid Change of Temperature	T _A =LCT T _B =UCT Number of cycles:5 Duration: 30 min	IEC60068-2-14 Test N _a
Vibration	Frequency :10-55 Hz h= 0.75 min Duration: 6 h	IEC 60068-2-6 Test F _c
Shock	Pulse shape: half-sine Acceleration: 50m/s ² Pulse duration: 30 ms	IEC 60068-2-27 Test E _a
Climatic Sequence	Dry heat :T= 40°C, 24hrs , 20%Rh Damp heat first cycle: T=40°C 95% R h Cold: T=0°C , 2hrs Damp heat 5 cycles	IEC 60068-2-2 Test B _a IEC 60068-2-30 Test D _b IEC 60068-2-1 Test A _a
Temperature Coefficient of Resistance	$\alpha_T = \ln(R_{Tc+25}/R_{Tc+10}) / 15$ R _{Tc} =2R _{min}	IEC 60738-1
Endurance at Upper Category Temperature	Temperature: UCT Duration: 1000 hrs	IEC 60738-1
Endurance at Maximum Operating Temperature and Maximum Voltage	Voltage: V _{max} Temperature: UCT Current: $\leq I_{max}$ Duration: 1000 hrs	IEC 60738-1
Endurance at Room Temperature (Cycling)	Voltage: V _{max} Temperature: 25 \pm 5°C Current: $\leq I_{max}$ Number of cycle 1,000、10,000 or 100,000	IEC 60738-1
Damp Heat Steady State	Temperature: 40 \pm 5°C Relative humidity of air: 95~98%Rh Duration: 1000 hrs	IEC 60068-2-3 Test C _a