



CPTC Thermistor

PRODUCT DATA

■ Degaussing

● Features

1. PDA versions are coated thermistors, the other versions are cased thermistors
2. Long decay time
3. Residual currents are low
4. Inrush currents of PDD versions are large
5. Long life

● Recommended Applications

1. Color TV
2. Monitor

● Approvals



- * UL1434 Recognized (File#E138827)
- * cUL Recognized (File#E138827)



- * TUV Certificate No. R50037310



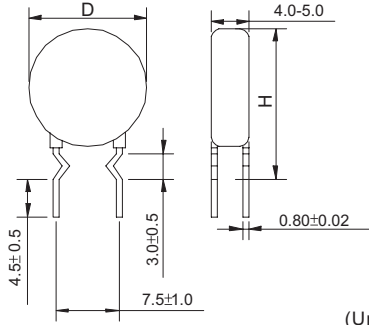
- * CQC Certificate No. CQC 03001008121 & CQC 03001008122





● Dimensions

PDA Series



● Characteristics

PDA Series

Part No.	Curie Temperature	Nominal Zero-power Resistance	Rated Voltage	Maximum Voltage	Current Attenuation (at V_R)			Reference Coil Resistance	Minimum Coil Resistance	Dimensions		
					Inrush current	After 3 Sec. Current	After 180 Sec. Current					
					I_0 P-p(A)	I_3 P-p(mA)	I_{180} P-p(mA)					
T_c (°C)	R_{25} (Ω)	V_R (V)	V_{max} (V)	I_0 P-p(A)	I_3 P-p(mA)	I_{180} P-p(mA)	R_{ref} (Ω)	R_{cmin} (Ω)	D(mm)	H(mm)		
PDA5R0□P6A4	60±10	5	110	140	≦ 30.5	≦ 300	≦ 60	3.5	1	14.0~15.5	18.5~21.0	
PDA7R0□P6A4		7	110	140	≦ 24.0	≦ 300	≦ 60	3.5	1	14.0~15.5	18.5~21.0	
PDA8R0□P6A4		8	110	140	140	≦ 19.0	≦ 300	≦ 60	5	3.5	14.0~15.5	18.5~21.0
PDA9R0□P6A4		9	110	140	140	≦ 18.0	≦ 300	≦ 60	5	3.5	14.0~15.5	18.5~21.0
PDA120□P6A4		12	110	140	140	≦ 14.5	≦ 300	≦ 60	5	3.5	14.0~15.5	18.5~21.0
PDA7R0□P6B7		7	220	270	270	≦ 21.0	≦ 300	≦ 45	20	14	14.0~15.5	18.5~21.0
PDA9R0□P6B7		9	220	270	270	≦ 19.0	≦ 300	≦ 45	20	14	14.0~15.5	18.5~21.0
PDA120□P6B7		12	220	270	270	≦ 20.0	≦ 300	≦ 45	15	12	14.0~15.5	18.5~21.0
PDA140□P6B7		14	220	270	270	≦ 18.0	≦ 300	≦ 45	15	8	14.0~15.5	18.5~21.0
PDA180□P6B7		18	220	270	270	≦ 17.0	≦ 300	≦ 45	12	8	14.0~15.5	18.5~21.0
PDA270□P6B7		27	220	270	270	≦ 13.0	≦ 300	≦ 30	10	6	11.5~13.0	14.0~16.5

Note: □=Tolerance of R_{25}



● Reliability Test

Item	Test Condition / Methods	Standard
Resistance to Soldering Heat	Temperature: 350 ± °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 Series resistor: R _{cmin} Duration: 1000 hrs	IEC 60738-1
Endurance at Room Temperature (Cycling)	Voltage: V _{max} Temperature: 25 ±5°C Series resistor : R _{cmin} Number of cycle 10,000	IEC 60738-1
Damp Heat Steady State	Temperature: 40 ±5°C Relative humidity of air: 95~98%Rh Duration: 1000 hrs	IEC 60068-2-3 Test C _a