



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



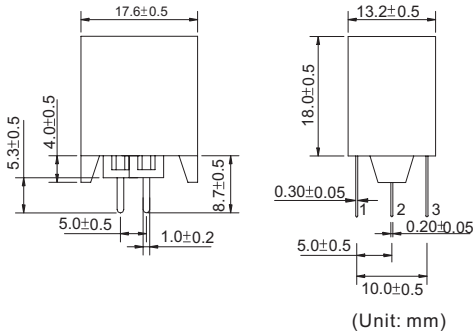
- * CQC Certificate No. CQC 03001008121 & CQC 03001008122





● Dimensions

PDC Series



● Characteristics

PDC Series

Part No.	Curie Temperature	Nominal Zero-power Resistance(R ₂₅)		Rated Voltage	Maximum Voltage	Current Attenuation (at V _R)			Reference Coil Resistance	Minimum Coil Resistance
		Disc	Heater			Inrush current	After 3 Sec. Current	After 180 Sec. Current		
	T _c (°C)	R ₂₋₃ (Ω)	R ₁₋₂ (Ω)	V _R (V)	V _{max} (V)	I _{0P-P} (A)	I _{3P-P} (mA)	I _{180P-P} (mA)	R _{ref} (Ω)	R _{cmin} (Ω)
PDC3R0□P6A4	60±10	3	100~1000	110	140	≧32.5	≦300	≦15	5.5	5
PDC4R5□P6A4		4.5		110	140	≧22.0	≦300	≦15	8	5
PDC5R0□P6A4		5		110	140	≧30.5	≦300	≦15	3.5	1
PDC7R0□P6A4		7		110	140	≧21.5	≦300	≦15	5	3.5
PDC8R0□P6A4		8		110	140	≧19.5	≦300	≦15	5	3.5
PDC9R0□P6A4		9		110	140	≧15.0	≦300	≦15	8	5
PDC120□P6A4		12		110	140	≧13.0	≦300	≦15	8	6
PDC140□P6A4		14		110	140	≧11.0	≦300	≦15	10	8
PDC4R5□P6B7		4.5		220	270	≧29.0	≦300	≦12	15	12
PDC7R0□P6B7		7		220	270	≧25.0	≦300	≦10	15	12
PDC9R0□P6B7		9		220	270	≧23.0	≦300	≦10	15	10
PDC120□P6B7		12		220	270	≧22.0	≦300	≦10	12	8
PDC140□P6B7		14		220	270	≧21.5	≦300	≦10	10	8
PDC180□P6B7		18		220	270	≧19.0	≦300	≦10	8	6
PDC270□P6B7		27		220	270	≧12.5	≦200	≦6	12	6
PDC360□P6B7		36		220	270	≧10.5	≦200	≦6	10	6
PDC140□P8A4	80±10	14	100~1000	110	140	≧10.5	≦300	≦10	10	5
PDC180□P8A4		18		110	140	≧9.0	≦300	≦10	8	5
PDC220□P8A4		22		110	140	≧8.0	≦300	≦8	8	5
PDC260□P8A4		26		110	140	≧7.0	≦200	≦8	8	5
PDC140□P8B7		14		220	270	≧23.0	≦300	≦10	8	8
PDC180□P8B7		18		220	270	≧18.0	≦300	≦10	10	8
PDC220□P8B7		22		220	270	≧16.5	≦300	≦8	8	5
PDC260□P8B7		26		220	270	≧14.5	≦200	≦8	8	5

Note: □=Tolerance of R₂₅



● **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