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**

C UL US

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

TÜV

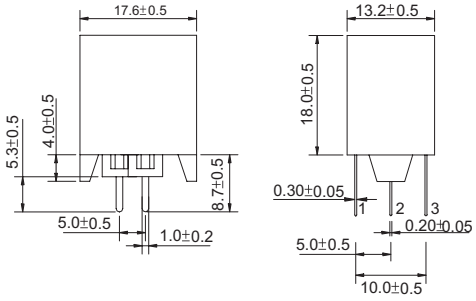
* TUV Certificate No. R50037310

CQC

* CQC Certificate No.CQC 03001008121 &CQC 03001008122

● Dimensions

PDD Series



(Unit: mm)

● Characteristics

PDD Series

Part No.	Curie Temperature	Nominal Zero-power Resistance	Rated Voltage	Maximum Voltage	Current Attenuation (at V_R)			Reference Coil Resistance	Minimum Coil Resistance
					Inrush current	After 3 Sec. Current	After 180 Sec. Current		
	Tc (℃)	R_{25}(Ω)	V_R(V)	V_{max}(V)	I_0p-p(A)	I_3p-p(mA)	I_{180}p-p(mA)	R_{ref}(Ω)	R_{cmin}(Ω)
PDD1R5□P6A4	60±10	1.5	110	140	≧18.0	≦450	≦60	15	10
PDD3R0□P6A4		3	110	140	≧22.0	≦450	≦60	10	5
PDD2R3□P6B7		2.3	220	270	≧32.0	≦450	≦60	16	12
PDD4R5□P6B7		4.5	220	270	≧34.0	≦450	≦60	12	8
PDD6R0□P6B7		6	220	270	≧39.0	≦450	≦60	8	6
PDD7R0□P6B7		7	220	270	≧36.0	≦450	≦50	8	3.5
PDD9R0□P6B7		9	220	270	≧31.0	≦400	≦50	8	3.5
PDD120□P6B7		12	220	270	≧26.0	≦400	≦40	8	3.5
PDD140□P6B7		14	220	270	≧25.0	≦400	≦40	6	3.5

Note: □=Tolerance of R_{25}

● Reliability Test

Item	Test Condition / Methods	Standard
Resistance to Soldering Heat	Temperature: 350± ℃ 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℃, 24hrs , 20%Rh Damp heat first cycle: T=40℃ 95% R h Cold: T=0℃, 2hrs Damp heat 5 cycles	IEC 60068-2-2 Test B_a IEC 60068-2-30 Test D_b IEC 60068-2-1 Test Aa
Temperature Coefficient of Resistance	α_T=ln(R_{Tc+25}/R_{Tc+10})／15 R_{Tc}=2Rmin	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℃ Series resistor : R_{cmin} Number of cycle 10,000	IEC 60738-1
Damp Heat Steady State	Temperature: 40 ±5℃ Relative humidity of air: 95～98%Rh Duration: 1000 hrs	IEC 60068-2-3 Test C_a