CPTC Thermistor

PRODUCT DATA

■ Heating

- **Features**

1. Self-regulating heating element
2. Contant temperature
3. Circuit simple
4. Suitable for clamp-contacting
5. Stable over a long life

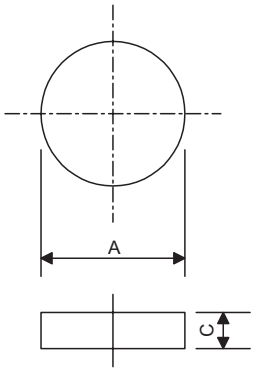


- **Recommended Applications**

1. Home appliances (Air conditioner)
2. Automobile

- **Dimensions**

PHC Series



(Unit: mm)

● Characteristics

PHC Series

Part No.	Curie Temperature	Surface Temperature	Nominal Zero-power Resistance	Rated Voltage	Maximum Voltage	Dimensions	
	Tc (℃)	Ts (℃)	R_{25}(Ω)	V_R(V)	V_{max}(V)	A±1(mm)	C±0.2(mm)
PHC08102□P3B7	30	50	1000	240	270	8	3
PHC13150□PJ60	65	75	15	42	60	13	1.5
PHC13102□PIB7	55	75	1000	240	270	13	2.3
PHC08100□A030	100	110	10	24	30	8	1.5
PHC08180□A030	100	110	18	24	30	8	1.5
PHC10180□A060	100	110	18	42	60	10	2.5
PHC08102□A1B7	110	130	1000	240	270	8	2.3
PHC20102□A1B7	110	130	1000	240	270	20	2.3
PHC10501□A3B7	130	150	500	240	270	10	2.3
PHC13360□A430	140	150	36	24	30	13	1.3
PHC10501□AGB7	135	155	500	240	270	10	2.3
PHC10102□AGB7	135	155	1000	240	270	10	2.3
PHC13680□AH60	145	155	68	42	60	13	1.3
PHC17150□A560	150	160	15	42	60	17	1.4
PHC20102□A4B7	140	160	1000	240	270	20	2.3
PHC10201□A5B7	150	170	200	220/240	270	10	2.3
PHC10301□A6A4	160	175	300	110	140	10	2.3
PHC10102□AJB7	165	180	1000	240	270	10	2.3
PHC203R6□A760	170	180	3.6	42	60	20	1.4
PHC10501□A7B7	170	185	500	240	270	10	2.3
PHC14501□AKB7	175	190	500	220/240	270	14	2.3
PHC13152□BEB7	215	230	1500	240	270	13	2.5
PHC13152□BGB7	235	250	1500	240	270	13	2.5
PHC20362□BGB7	235	250	3600	240	270	20	2.5

Note: □=Tolerance of R_{25}

● Reliability Test

Item	Test Condition / Methods	Standard
Rapid Change of Temperature	T_A=LCT T_B=UCT Number of cycles:5 Duration: 30 min	IEC60068-2-14 Test N_a
Temperature Coefficient of Resistance	$\alpha_T=\ln(R_{Tc+25}/R_{Tc+10})/15$ 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 Duration: 1000 hrs	IEC 60738-1
Endurance at Room Temperature (Cycling)	Voltage: V_{max} Temperature: 25 ±5℃ Number of cycle 10,000 or 100,000	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