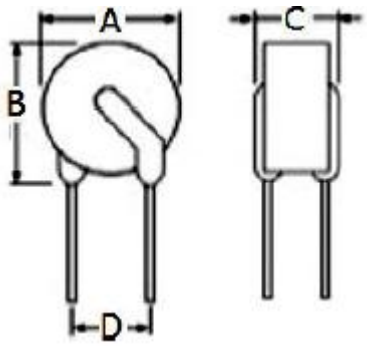
Polymer PTC Resettable 250V Series

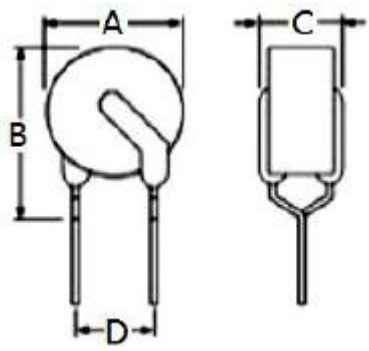
Features:

- RoHS Compliant & Lead-free
- Radial leaded Devices
- Cured，flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- Bulk packaging,or tape and reel available on most models

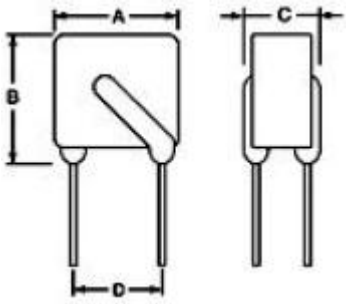
Product Dimensions



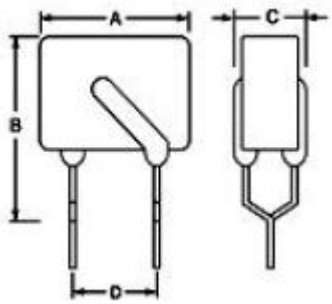
Pig1



Pig2



Pig3



Pig4

Unit ： mm

Model	Dimensions（mm）				Lead material	Shape
	A(max)	B(max)	C(max)	D(typ)	Tinned matel(mm)	Fig
250V-020	7.4	12.7	4.5	5.1	22AWG/Φ0.6	1
250V-030	7.4	12.7	4.5	5.1	22AWG/Φ0.6	1
250V-040	7.4	12.7	4.5	5.1	22AWG/Φ0.6	1/2
250V-050	7.4	12.7	4.5	5.1	22AWG/Φ0.6	1/2
250V-060	7.4	12.7	4.5	5.1	22AWG/Φ0.6	1/2
250V-080	7.4	12.7	4.5	5.1	22AWG/Φ0.6	2
250V-090	7.4	12.7	4.5	5.1	22AWG/Φ0.6	2
250V-100	7.8	12.6	4.5	5.1	22AWG/Φ0.6	1
250V-110	7.0	12.6	4.5	5.1	22AWG/Φ0.6	4
250V-120	7.0	12.6	4.5	5.1	22AWG/Φ0.6	4
250V-145	7.0	12.6	4.5	5.1	22AWG/Φ0.6	4
250V-180	9.0	11.0	4.5	5.1	22AWG/Φ0.6	4

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250V-180T	10.2	14.5	3.8	5.1	22AWG/Φ0.6	2
250V-200	12.0	17.0	4.5	5.1	22AWG/Φ0.6	3
250V-400	12.0	17.0	4.5	5.1	22AWG/Φ0.6	3
250V-600	16.0	18.0	4.5	5.1	22AWG/Φ0.6	3
250V-800	20.0	22.5	4.5	5.1	22AWG/Φ0.8	3
250V-1000	20.0	22.5	4.5	5.1	20 AWG/Φ0.8	3
250V-1200	22	28	4.5	5.1	20 AWG/Φ0.8	3
250V-1500	25	30	4.5	5.1	20 AWG/Φ0.8	3
250V-2000	26	32	4.5	10.2	20 AWG/Φ0.8	3

Note: ① Dimensions A, B, C is the maximum size, D values are typical tolerance of ± 0.75mm

Thermal Derating Chart-IH（A）

Model	Maximum ambient operating temperatures（℃）									
	-40	-20	0	25	40	50	60	70	80	85
250V series	148%	132%	117%	100%	91%	85%	77%	68%	61%	45%

Electrical Characteristic

Model	I_{Hold}	I_{Trip}	$V_{max\ interrupt}$	I_{max}	$P_{d\ Max}$	Maximum Time to Trip		resistance（Ω）	
	(mA)	(mA)	V	A	W	Current（A）	Time（S）	R_{min}	R_{max}
250V-020	20	45	250	3	1.0	0.5	0.5	80	160
250V-030	30	65	250	3	1.0	0.5	0.5	60	120
250V-040	40	80	250	3	1.0	0.5	1.5	30	60
250V-050	50	100	250	3	1.0	0.5	2	25	50
250V-060	60	120	250	3	1.0	0.5	2	20	60
250V-080	80	160	250	3	1.0	1	0.5	12	22
250V-090	90	180	250	3	1.0	1	0.8	10	20
250V-100	100	200	250	3	1.0	1	1	10	20
250V-110	110	220	250	3	1.0	1	2.0	6	12
250V-120	120	240	250	3	1.0	1	2.0	6	11
250V-145	145	290	250	3	1.0	1	5.0	3.5	6.5
250V-180	180	650	250	3	1.8	3	1.5	2.0	4.0
250V-180T	180	650	250	3	1.8	3	3.0	1.0	2.2
250V-200	200	400	250	5	2.4	3	5	3	6
250V-400	400	800	250	5	2.8	3	8	1	3
250V-600	600	1200	250	5	3.2	3	12	0.6	2.0
250V-800	800	1600	250	5	3.6	4	18	0.4	1.0
250V-1000	1000	2000	250	7	3.6	5	20	0.3	0.8
250V-1200	1200	2400	250	7	3.6	6	20	0.2	0.8
250V-1500	1500	3000	250	7	4.8	7.5	20	0.2	0.6
250V-2000	2000	4000	250	10	4.8	10	20	0.2	0.4

I_H=Hold current:maximum current at which the device will not trip at 25℃ still air.

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I_T=Trip current:minimum current at which the device will nalways at 25℃ still air.

V_{max}=Maximum voltage device can withstand without damage at rated current.

I_{max}=Maximum fault current device can withstand tithout damage at rated voltage.

T_{trip}=Maximum time to trip(s) at assigned current.

P_d=Typical power dissipation:typical amount of power dissipated by the decice when in state air environment.

R_{min}=Minimum device resistance at 25℃ prior to tripping.

R_{max}=Maximum device resistance at 25℃ prior to tripping.

Environmental Specifications

Test	Conditions	Resistance change
Passive aging	+85℃， 1000hrs	±8% typical
Humidity aging	+85℃，85%R.H.1000hrs	±8% typical
Thermal shock	+125℃ to -55℃， 10times	±12% typical
Resistance to solvent	MIL-STD-202，Method 215	No change
Vibration	MIL-STD-202，Method 201	No change

Solder reflow conditions

Wave Soldering

Soldering Temperature:260℃~270℃

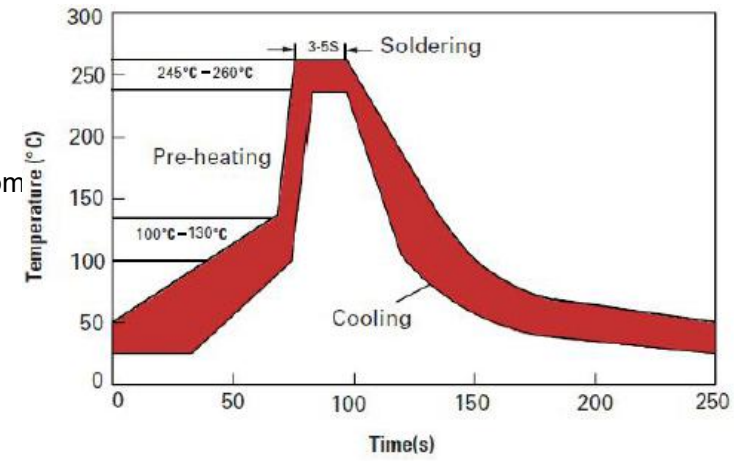
Soldering Time:≤3sec.

Soldering Position: Resettable fuse wire and the bottom ≥ 6mm。

Manual soldering

Soldering Temperature:250℃~280℃

Soldering Time: ≤3sec.



Storage

The maximum ambient temperature shall not exceed 40℃.Storage temperatures higher than 40℃ could result in the deformation of packaging materials.The maximum relative humidity recommended for storage is 70%.High humidity with high temperature can accelerate the oxidation the oxidation of the solder plating on the termination and reduce the solderability of the components.sealed plastic bags with desiccant shall be used to teduce the oxidation of the termination and shall only be opened prior to use.the products shall not be stored in areas where harmful gases containing sulfu of chlorine are present.

Warning:

PPTC devices are intended for protection against occasional over-current or over-temperature fault conditions,and should not be used when repeated fault conditions are anticipated.Operation beyond maximum tatings of improper use may result in device damage and possible electrical arcing and flame.

Notes：

The specification is intended to present application,product and technical data to assist the user in selecting PPTC circuit production

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