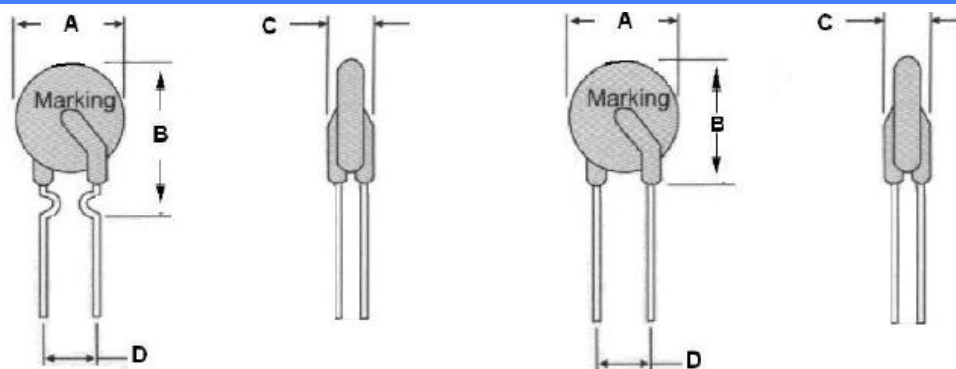


Polymer PTC Resettable 130V Series

Features:

- RoHS Compliant & Lead-free
- Radial leaded Devices
- Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements

Product Dimensions



Pig1

Pig2

Unit : mm

Model	Dimensions (mm)				Lead material	Shape
	A(max)	B(max)	C(max)	D(typ)	Tinned matel(mm)	Fig
130V-010	7.4	12.7	3.8	5.1	22AWG/Φ0.6	1
130V-015	7.4	13.0	3.8	5.1	22AWG/Φ0.6	1
130V-017	7.4	13.5	3.8	5.1	22AWG/Φ0.6	1
130V-020	7.6	13.5	3.8	5.1	22AWG/Φ0.6	1
130V-025	7.6	13.5	3.8	5.1	22AWG/Φ0.6	1
130V-030	8.0	14.0	3.8	5.1	22AWG/Φ0.6	1
130V-040	9.4	15.0	3.8	5.1	22AWG/Φ0.6	1
130V-050	10.2	15.2	3.8	5.1	22AWG/Φ0.6	1
130V-065	12.8	18.0	3.8	5.1	22AWG/Φ0.6	1
130V-075	12.8	18.0	3.8	5.1	22AWG/Φ0.6	1
130V-090	14.5	19.6	3.8	5.1	20AWG/Φ0.8	2
130V-110	16.3	21.3	3.8	5.1	20AWG/Φ0.8	2
130V-135	17.0	22.0	3.8	5.1	20AWG/Φ0.8	2
130V-160	20	25	3.8	5.1	20AWG/Φ0.8	2
130V-185	22	23	3.8	5.1	20AWG/Φ0.8	2
130V-200	25	27	3.8	10.2	20AWG/Φ0.8	2
130V-250	27	32	3.8	10.2	20AWG/Φ0.8	2

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 (°C)									
	-40	-20	0	25	40	50	60	70	80	85
130V series	147%	132%	118%	100%	90%	85%	76%	67%	60%	47%

Electrical Characteristic

Model	I_{Hold}	I_{Trip}	$V_{max\ interrupt}$	I_{max}	$P_d\ Max$	Maximum Time to Trip		resistance (mΩ)	
	(A)	(A)	V	A	W	Current(A)	Time (S)	R_{min}	R_{max}
130V-010	0.10	0.20	130	3	0.8	0.5	6	2.5	9.0
130V-015	0.15	0.30	130	3	0.8	0.75	5.5	2.5	7.5
130V-017	0.17	0.34	130	3	0.8	0.85	5.2	1.5	7.0
130V-020	0.20	0.40	130	3	0.8	1.0	5.0	1.9	4.0
130V-025	0.25	0.50	130	3	1.0	1.25	4.8	1.45	3.50
130V-030	0.30	0.60	130	3	1.0	1.5	4.5	1.0	3.0
130V-040	0.40	0.80	130	3	1.0	2.0	4.5	0.75	2.0
130V-050	0.50	1.0	130	3	1.0	2.5	5.0	0.50	1.60
130V-065	0.65	1.3	130	10	1.0	3.25	5.2	0.45	1.0
130V-075	0.75	1.5	130	10	1.0	3.75	5.5	0.40	0.90
130V-090	0.90	1.8	130	10	1.5	4.5	5.8	0.30	0.70
130V-110	1.10	2.2	130	10	1.8	5.5	6.3	0.20	0.65
130V-135	1.35	2.7	130	10	1.8	6.75	7.5	0.15	0.60
130V-160	1.60	3.2	130	10	2.0	8.0	8	0.10	0.50
130V-185	1.85	3.7	130	10	2.0	9.25	9	0.10	0.40
130V-200	2.00	4.0	130	10	2.2	10.0	10	0.10	0.30
130V-250	2.50	5.0	130	10	2.5	12.5	12	0.05	0.25

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

I_T =Trip current:minimum current at which the device will nalways at 25°C 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°C prior to tripping.

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

Environmental Specifications

Test	Conditions	Resistance change
Passive aging	+85°C, 1000hrs	±8% typical
Humidity aging	+85°C, 85%R.H.1000hrs	±8% typical
Thermal shock	+125°C to -55°C, 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°C~270°C

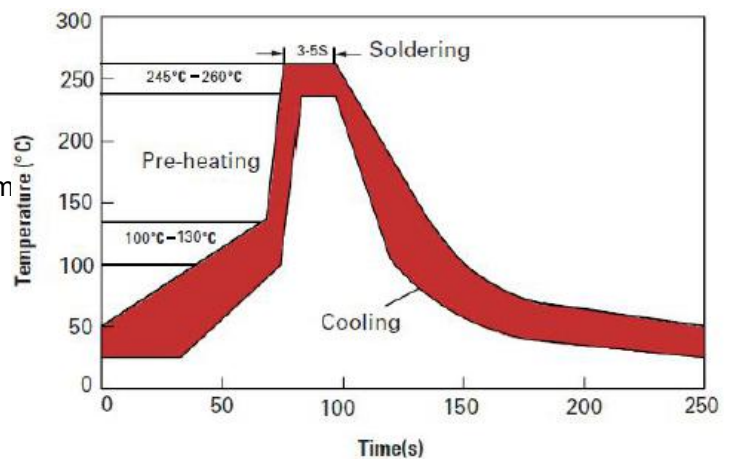
Soldering Time:≤3sec.

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

Manual soldering

Soldering Temperature:250°C~280°C

Soldering Time: ≤3sec.



Storage

The maximum ambient temperature shall not exceed 40°C.Storage temperatures higher than 40°C 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 reduce 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 ratings 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 devices,However,users should independently evaluate and test the suitability of each product.YINT makes on warranties as to the accuracy or completeness of the information and disclaims any liability resulting form its use,YINT's only obligations are those im the YINT Standard Rerms and Conditions of Sale and in no case will YINT be liable for any incidental,indirect,or consequential damages arising from the sale,resale,or misues of its products.YINT reserves the right to change of update,without notice,any information contained in this specification.