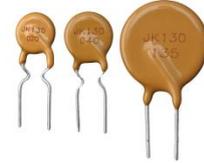


Polymer PTC Resettable Fuse JK130 Series

Features:

- ✧ Radialleaded Devices
- ✧ Cured, flame retardant epoxy polymer insulating material meets UL94V-0
- ✧ RoHS compliant and lead-free



Product Dimensions

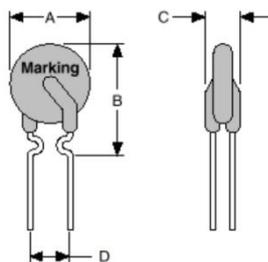


Fig.1

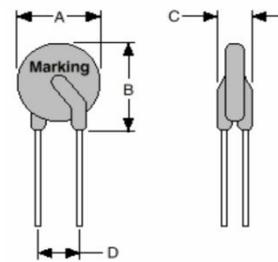


Fig.2

Unit :mm

Model	Dimensions (mm)				Lead material	Shape
	A(max)	B(max)	C(max)	D(typ)	Tinned metal(mm)	Fig
JK130-010	7.4	12.7	3.8	5.1	22AWG/Φ0.6	1
JK130-015	7.4	13.0	3.8	5.1	22AWG/Φ0.6	1
JK130-017	7.4	13.5	3.8	5.1	22AWG/Φ0.6	1
JK130-020	7.6	13.5	3.8	5.1	22AWG/Φ0.6	1
JK130-025	7.6	13.5	3.8	5.1	22AWG/Φ0.6	1
JK130-030	8.0	14.0	3.8	5.1	22AWG/Φ0.6	1
JK130-040	9.4	15.0	3.8	5.1	22AWG/Φ0.6	1
JK130-050	10.2	15.2	3.8	5.1	22AWG/Φ0.6	1
JK130-065	12.8	18.0	3.8	5.1	22AWG/Φ0.6	1
JK130-075	12.8	18.0	3.8	5.1	22AWG/Φ0.6	1
JK130-090	14.5	19.6	3.8	5.1	20AWG/Φ0.8	2
JK130-110	16.3	21.3	3.8	5.1	20AWG/Φ0.8	2
JK130-135	17.0	22.0	3.8	5.1	20AWG/Φ0.8	2
JK130-160	20	25	3.8	5.1	20AWG/Φ0.8	2
JK130-185	22	23	3.8	5.1	20AWG/Φ0.8	2

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JK130-200	25	27	3.8	10.2	20AWG/Φ0.8	2
JK130-250	27	32	3.8	10.2	20 AWG/Φ0.8	2

Note: Dimensions in the A, B, C are the maximum sizes, all typical values of D is at the tolerance of $\pm 0.75\text{mm}$.

Thermal Derating Chart- I_H (A)

Model	Maximum ambient operating temperatures ($^{\circ}\text{C}$)									
	-40 $^{\circ}\text{C}$	-20 $^{\circ}\text{C}$	0 $^{\circ}\text{C}$	25 $^{\circ}\text{C}$	30 $^{\circ}\text{C}$	40 $^{\circ}\text{C}$	50 $^{\circ}\text{C}$	60 $^{\circ}\text{C}$	70 $^{\circ}\text{C}$	85 $^{\circ}\text{C}$
JK-130 series	147%	132%	118%	100%	90%	85%	76%	67%	60%	47%

Electrical Characteristics

Model	I_H (A)	I_T (A)	V_{max} (V)	I_{max} (A)	P_d (w)	Maximum Time-to-trip		Resistance(Ω)	
						Current (A)	Time (S)	Rmin- Rmax	Rlmax
JK130-010	0.10	0.20	130	3	0.8	0.5	6	2.5-9.0	20
JK130-015	0.15	0.30	130	3	0.8	0.75	5.5	2.5-7.5	18
JK130-017	0.17	0.34	130	3	0.8	0.85	5.2	1.5-7.0	16
JK130-020	0.20	0.40	130	3	0.8	1.0	5.0	1.9-4.0	12
JK130-025	0.25	0.50	130	3	1.0	1.25	4.8	1.45-3.50	6.0
JK130-030	0.30	0.60	130	3	1.0	1.5	4.5	1.0-3.0	5.0
JK130-040	0.40	0.80	130	3	1.0	2.0	4.5	0.75-2.0	4.0
JK130-050	0.50	1.0	130	3	1.0	2.5	5.0	0.50-1.60	3.5
JK130-065	0.65	1.3	130	10	1.0	3.25	5.2	0.45-1.0	2.0
JK130-075	0.75	1.5	130	10	1.0	3.75	5.5	0.40-0.90	2.0
JK130-090	0.90	1.8	130	10	1.5	4.5	5.8	0.30-0.70	1.5
JK130-110	1.10	2.2	130	10	1.8	5.5	6.3	0.20-0.65	1.2
JK130-135	1.35	2.7	130	10	1.8	6.75	7.5	0.15-0.60	1.2
JK130-160	1.60	3.2	130	10	2.0	8.0	8	0.10-0.50	1.0
JK130-185	1.85	3.7	130	10	2.0	9.25	9	0.10-0.40	0.80
JK130-200	2.00	4.0	130	10	2.2	10.0	10	0.10-0.30	0.50
JK130-250	2.50	5.0	130	10	2.5	12.5	12	0.05-0.25	0.45

I_H =Hold current:Maximum current at which the device will not interrupt in 25 $^{\circ}\text{C}$ still air.

I_T =Trip current:Minimum current at which the device from low resistance to high resistance in 25 $^{\circ}\text{C}$ still air.

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

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

Maximum Time-to-trip:Maximum time to trip at assigned current.

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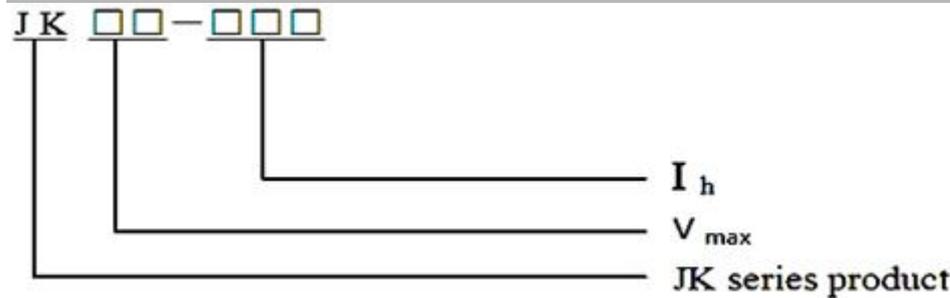
E-mail:customer@jkpptc.com

P_d =Typical power dissipation:Typical amount of power dissipated from the device when in 25°C still air environment.

R_{min} =Minimum resistance of device at 25°C prior to tripping.

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

Marking System



Environmental Specifications

Test	Conditions	Resistance change
Passive Aging	+85°C, 1000hours	±8% typical
Humidity Aging	+85°C, 85%R.H.1000hours	±8% typical
Thermal Shock	+85°C to -40°C, 10 Times	±12% typical
SolventResistance	MIL-STD-202, Method 215F	No change
Vibration	MIL-STD-202, Method 201	No change

Solderingmethod

Wave Soldering

Soldering Temperature:260°C~270°C

Soldering Time:≤3sec

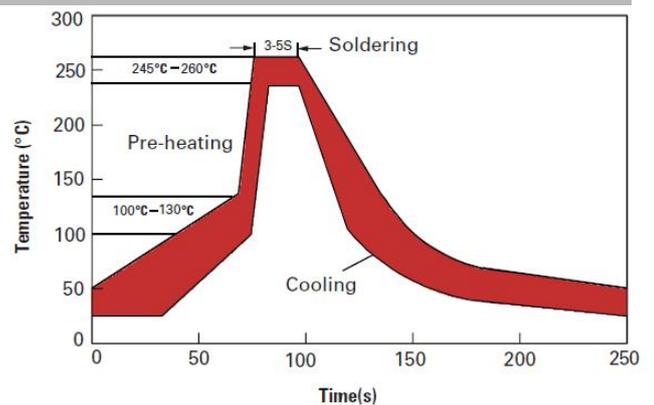
Soldering Position: Resettable fuse lead and the distance fromthe bottom ≥ 6mm

Manual soldering

Soldering Temperature:250°C~280°C

Soldering Time: ≤3sec

Soldering Position: Resettable fuse lead and the distance fromthe bottom ≥ 6mm



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Packaging and Storage

Packaging quantity

JK130-010~JK130-065	1000Pcs/Bag
JK130-075~JK130-200	500 Pcs/Bag

Storage

The maximum ambient temperature shall not exceed 40°C. Storage temperature higher than 40°C could result in the deformation of packaging materials. The maximum relative humidity recommended for storage is 60%. High humidity with high temperature can accelerate the oxidation of the solder plating on the leads and reduce the solderability of the components. Sealed plastic bags with desiccant shall be used to reduce the oxidation of the leads and shall only be opened prior to use. The products shall not be stored in areas where harmful gases containing acid or alkali or other harmful substances are present. The sealed product can be stored for 1 year, and it is recommended to return to our company for inspection after the expiration date.

Warning:

Please read this specification before use the product.

Using of this product must be sure to follow the requirement of this specification, operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and flame.

PPTC resettable fuses are intended for occasional over current protection. Application for repeated over current condition or prolonged trip are not anticipated.

Please avoid contact of PPTC resettable fuses with chemical solvent. Prolonged contact will damage the device performance. You are requested not to use our product deviating from the agreed specifications.

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