

Polymer Positive Temperature Coefficient

Features

- Radial leaded devices.
- Over-current protection
- Flame retardant epoxy polymer insulating material meets UL94 V-0 requirement.
- Available in lead-free version.
- Meets MSL level 1, per J-STD-020

Dimensions

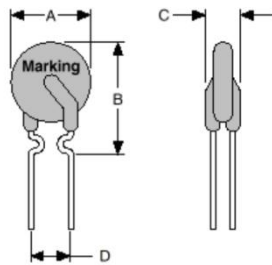


Fig.1

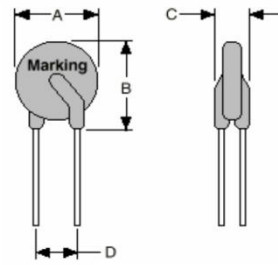


Fig.2

Unit :mm

Model	Dimensions (mm)				Lead material	Shape
	A(max)	B(max)	C(max)	D(typ)	Tinned matel(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
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: 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°C	-20°C	0°C	25°C	30°C	40°C	50°C	60°C	70°C	85
JK130 series	147%	132%	118%	100%	90%	85%	76%	67%	60%	47%

Electrical Characteristic

Model	I _{hold} (A)	I _{trip} (mA)	V _{max interrupt} (V)	I _{max} (A)	P _{d max} (W)	Maximum Time to Trip		Resistance(Ω)
						Current (A)	Time (S)	R _{min} - R _{max}
JK130-010	0.10	0.20	130	3	0.8	0.5	6	2.5-9.0
JK130-015	0.15	0.30	130	3	0.8	0.75	5.5	2.5-7.5
JK130-017	0.17	0.34	130	3	0.8	0.85	5.2	1.5-7.0
JK130-020	0.20	0.40	130	3	0.8	1.0	5.0	1.9-4.0
JK130-025	0.25	0.50	130	3	1.0	1.25	4.8	1.45-3.50
JK130-030	0.30	0.60	130	3	1.0	1.5	4.5	1.0-3.0
JK130-040	0.40	0.80	130	3	1.0	2.0	4.5	0.75-2.0
JK130-050	0.50	1.0	130	3	1.0	2.5	5.0	0.50-1.60
JK130-065	0.65	1.3	130	10	1.0	3.25	5.2	0.45-1.0
JK130-075	0.75	1.5	130	10	1.0	3.75	5.5	0.40-0.90
JK130-090	0.90	1.8	130	10	1.5	4.5	5.8	0.30-0.70
JK130-110	1.10	2.2	130	10	1.8	5.5	6.3	0.20-0.65
JK130-135	1.35	2.7	130	10	1.8	6.75	7.5	0.15-0.60
JK130-160	1.60	3.2	130	10	2.0	8.0	8	0.10-0.50
JK130-185	1.85	3.7	130	10	2.0	9.25	9	0.10-0.40
JK130-200	2.00	4.0	130	10	2.2	10.0	10	0.10-0.30
JK130-250	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 decide 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.

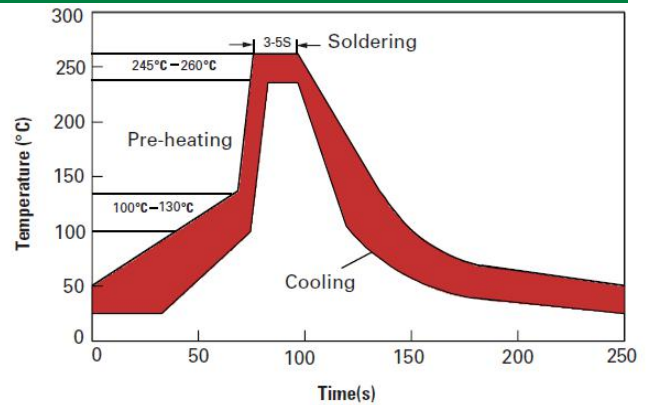
Soldering Position: Resettable fuse wire and the bottom ≥ 6mm.

Manual soldering

Soldering Temperature: 250°C~280°C

Soldering Time: ≤3sec.

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



Packaging and Storage

Bag quantity

JK130-010~JK130-065

1000Pcs/Bag

JK130-075~JK130-200

500 Pcs/Bag