

Resettable Fuse PTC 130V Series

Features

RoHS Compliant and lead-Free

Radial leaded Devices

Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements

Operation Current: 0.1A~2.5A , Maximum Voltage: 130Vdc,

Operating Temperature: -40℃ to +85℃

Agency recognition:



Dimensions(Unit:mm)

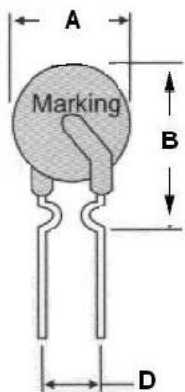


Fig.1

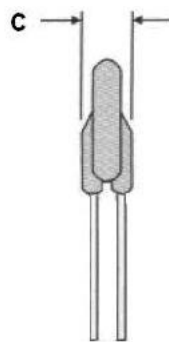
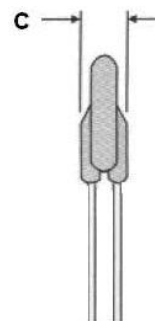
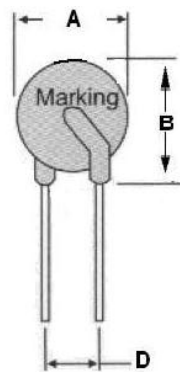


Fig.2



Part number	Dimensions(mm)				Lead material	Shape	Certification	Delivery Time	
	A(max)	B(max)	C(max)	D(Typ)	Tinned Matel(mm)	Fig	UL	in stock	Produce
JK130010	7.4	12.7	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130015	7.4	13.0	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130017	7.4	13.5	3.8	5.10	22 AWG/ Φ0.6	Fig1	-	3days	14days
JK130020	7.6	13.5	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130025	7.6	13.5	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130030	8.0	14.0	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130040	9.4	15.0	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130050	10.2	15.2	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130065	12.8	18.0	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130075	12.8	18.0	3.8	5.10	22 AWG/ Φ0.6	Fig1	√	3days	14days
JK130090	14.5	19.6	3.8	5.10	20 AWG/ Φ0.8	Fig2	√	3days	14days

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Part number	Dimensions(mm)				Lead material	Shape	Certification	Delivery Time	
	A(max)	B(max)	C(max)	D(Typ)	Tinned Matel(mm)	Fig	UL	in stock	Produce
JK130110	16.3	21.3	3.8	5.10	20 AWG/ Φ0.8	Fig2	√	3days	14days
JK130135	17.0	22.0	3.8	5.10	20 AWG/ Φ0.8	Fig2	√	3days	14days
JK130160	20.0	25.0	3.8	5.10	20 AWG/ Φ0.8	Fig2	√	3days	14days
JK130185	22.0	23.0	3.8	5.10	20 AWG/ Φ0.8	Fig2	√	3days	14days
JK130200	25.0	27.0	3.8	10.2	20 AWG/ Φ0.8	Fig2	√	3days	14days
JK130250	27.0	32.0	3.8	10.2	20 AWG/ Φ0.8	Fig2	√	3days	14days

Note: Dimensions A,B,C is the maximum size,D Values is typical tolernce of ±0.75mm

Thermal Derating Chart-IH(A)

Maximum ambient operating temperatures °C									
Part Number	-40℃	-20℃	0℃	25℃	40℃	50℃	60℃	70℃	85℃
JK130010	0.15	0.13	0.12	0.1A	0.085	0.076	0.67	0.06	0.047
JK130015	0.22	0.20	0.18	0.15A	0.13	0.11	0.10	0.09	0.07
JK130017	0.25	0.22	0.20	0.17A	0.14	0.13	0.11	0.10	0.08
JK130020	0.29	0.26	0.24	0.20A	0.17	0.15	0.13	0.12	0.09
JK130025	0.37	0.33	0.30	0.25A	0.21	0.19	0.17	0.15	0.12
JK130030	0.44	0.40	0.35	0.30A	0.26	0.23	0.20	0.18	0.14
JK130040	0.59	0.53	0.47	0.40A	0.34	0.30	0.27	0.24	0.19
JK130050	0.74	0.66	0.59	0.50A	0.43	0.38	0.34	0.30	0.24
JK130065	0.96	0.86	0.77	0.65A	0.55	0.49	0.44	0.39	0.31
JK130075	1.10	0.99	0.89	0.75A	0.64	0.57	0.50	0.45	0.35
JK130090	1.32	1.19	1.06	0.90A	0.77	0.68	0.60	0.54	0.42
JK130110	1.62	1.45	1.30	1.10A	0.94	0.84	0.74	0.66	0.52
JK130135	1.98	1.78	1.59	1.35A	1.15	1.03	0.90	0.81	0.63
JK130160	2.35	2.11	1.89	1.60A	1.36	1.22	1.07	0.96	0.75
JK130185	2.72	2.44	2.18	1.85A	1.57	1.41	1.24	1.11	0.87
JK130200	2.94	2.64	2.36	2.00A	1.70	1.52	1.34	1.20	0.94
JK130250	3.68	3.30	2.95	2.50A	2.13	1.90	1.68	1.50	1.18

Electrical characteristics(25°C)

Part Number	I Hold	I Trip	V _{max}	I _{max}	P _d Max	Maximum Time to Trip		Resistance (Ω)		Certification	Delivery Time	
	A	A	DC	A	W	Current (A)	Time (S)	R _{min}	R _{max}	UL	in stock	Produce
JK130010	0.10	0.20	130V	3	0.8	0.5	6	2.5	9.0	√	3days	14days
JK130015	0.15	0.30	130V	3	0.8	0.75	5.5	2.50	7.50	√	3days	14days
JK130017	0.17	0.34	130V	3	0.8	0.85	5.2	1.50	7.00	-	3days	14days
JK130020	0.20	0.40	130V	3	0.8	1	5.0	1.9	4.0	√	3days	14days
JK130025	0.25	0.50	130V	3	1.0	1.25	4.8	1.45	3.50	√	3days	14days
JK130030	0.30	0.60	130V	3	1.0	1.5	4.5	1.0	3.0	√	3days	14days
JK130040	0.40	0.80	130V	3	1.0	2.0	4.5	0.75	2.0	√	3days	14days
JK130050	0.50	1.0	130V	3	1.0	2.5	5.0	0.50	1.60	√	3days	14days
JK130065	0.65	1.3	130V	10	1.0	3.25	5.2	0.45	1.0	√	3days	14days
JK130075	0.75	1.5	130V	10	1.0	3.75	5.5	0.40	0.90	√	3days	14days
JK130090	0.90	1.8	130V	10	1.5	4.5	5.8	0.30	0.70	√	3days	14days
JK130110	1.10	2.2	130V	10	1.8	5.5	6.3	0.20	0.65	√	3days	14days
JK130135	1.35	2.7	130V	10	1.8	6.75	7.5	0.15	0.60	√	3days	14days
JK130160	1.60	3.2	130V	10	2.0	8.0	8	0.10	0.50	√	3days	14days
JK130185	1.85	3.7	130V	10	2.0	9.25	9	0.10	0.40	√	3days	14days
JK130200	2.00	4.0	130V	10	2.2	10.0	10	0.10	0.30	√	3days	14days
JK130250	2.50	5.0	130V	10	2.5	12.5	12	0.05	0.25	√	3days	14days

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

I_{Trip}=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.

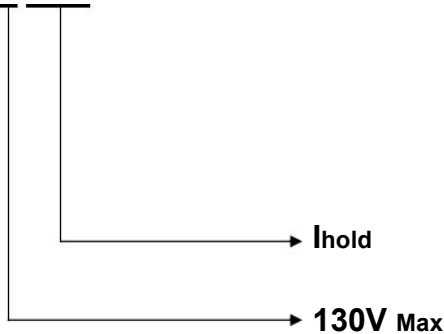
R_{min}=Minimum device resistance at 25°C prior to tripping.

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

Marking System



JK130 -XXX



Test Procedures and Requirements

Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25°C	$R_{min} \leq R \leq R_{max}$
Time to Trip	Specified current, V_{max} , 25°C	Tmaximum Time to Trip
Hold Current	60min ,at I_H	No trip
Trip Cycle Life	V_{max} , I_{max} , 100cycles	No arcing or burning
Trip Endurance	V_{max} , 24hours	No arcing or burning

Physical Characteristics and Environmental Specifications

Physical Characteristics

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

Operation Condition

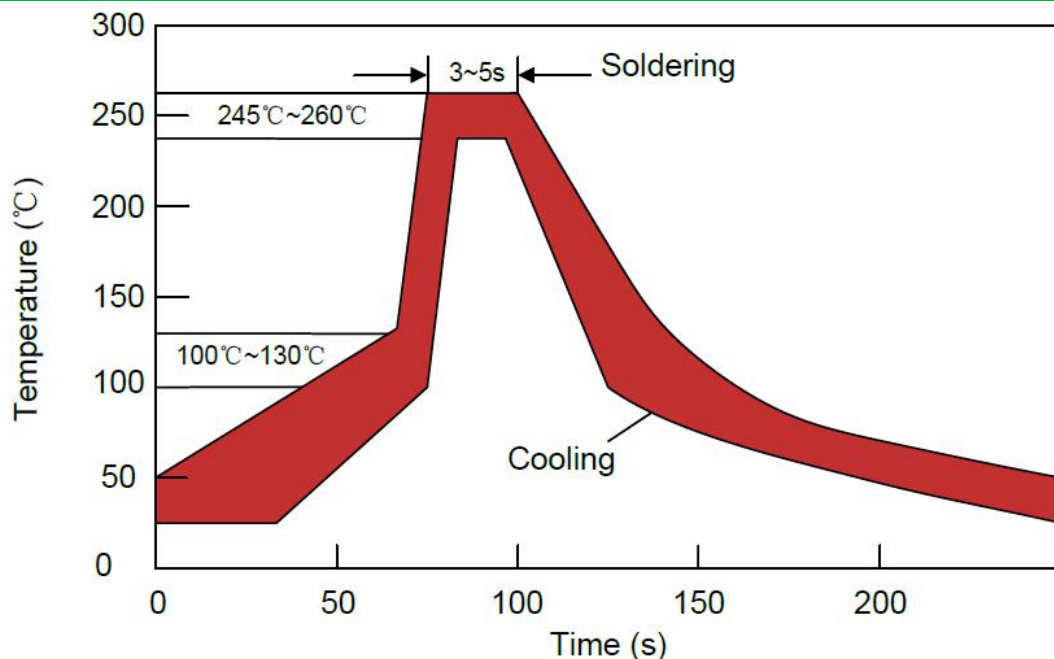
- 1 Ambient temperature: -40°C ~ +85°C
- 2 Humidity: ≤95%HR(40°C)
- 3 Atmospheric pressure: 86Kpa ~106Kpa.
- 4 Vibration frequency: 10Hz ~ 50Hz.
- 5 Acceleration: 98m/s².
- 6 Storage temperature: -40°C ~85°C.

7.1 Wave Soldering:

Soldering Temperature: 260°C ~270°C Soldering Time: ≤3sec.

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

Wave Soldering Recommendation Parameters



7.2 Manual soldering

Soldering Temperature: 250°C~280°C

Soldering Time: ≤3sec.

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

Packing quantity:

JK130010 ~ JK130065 1000pcs/Bag

JK130075 ~ JK130250 500pcs/Bag



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 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 sulfur or chlorine are present.

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. PTC 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 PTC 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.

Specifications are subject to change without notice

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