Resettable Fuse PTC 16V Series

Features

RoHS Compliant ＆ Halogen Free

Radial leaded Devices

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

Operation Current: 0.1A~14A ， Maximum Voltage: 16Vdc，

Operating Temperature：-40℃ to +85℃

Agency recognition: TÜV RoHS

Dimensions(Unit:mm)

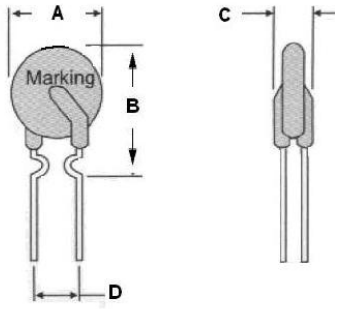


Fig 1

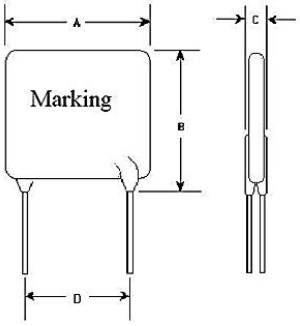


Fig 2



Part number	Dimensions(mm)				Lead material	Shape	TUV Certification	Delivery Time	
	A(max)	B(max)	C(max)	D(Typ)	Tinned Matel(mm)	Fig	R 50108769	in stock	Produce
JK16010T	5.5	12.0	3.0	5.1	24 AWG/ Φ0.5	1	-	3days	14days
JK16025T	5.5	12.0	3.0	5.1	24 AWG/ Φ0.5	1	-	3days	14days
JK16030T	5.5	12.0	3.0	5.1	24 AWG/ Φ0.5	1	-	3days	14days
JK16050T	5.5	12.0	3.0	5.1	24 AWG/ Φ0.5	1	-	3days	14days
JK16075T	7.4	13.5	3.0	5.1	24 AWG/ Φ0.5	1	-	3days	14days
JK16090T	7.4	13.5	3.0	5.1	24 AWG/ Φ0.5	1	-	3days	14days
JK16110T	7.4	13.5	3.0	5.1	24 AWG/ Φ0.5	1	-	3days	14days
JK16135T	7.4	13.5	3.0	5.1	24 AWG/ Φ0.5	1	-	3days	14days
JK16160T	7.4	14.0	3.0	5.1	24 AWG/ Φ0.5	2	-	3days	14days
JK16200T	9.0	12.0	3.0	5.1	24 AWG/ Φ0.5	2	-	3days	14days
JK16300	9.0	12.0	3.0	5.1	20 AWG/ Φ0.8	2	√	3days	14days
JK16400	10.0	13.0	3.0	5.1	20 AWG/ Φ0.8	2	√	3days	14days
JK16500	10.0	17.5	3.0	5.1	20 AWG/ Φ0.8	2	√	3days	14days
JK16600	13.5	17.5	3.0	5.1	20 AWG/ Φ0.8	2	√	3days	14days

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Part number	Dimensions(mm)				Lead material	Shape	TUV Certification	Delivery Time	
	A(max)	B(max)	C(max)	D(Typ)	Tinned Matel(mm)	Fig	R 50108769	in stock	Produce
JK16700	13.5	23.0	3.0	5.1	20 AWG/ Φ0.8	2	√	3days	14days
JK16800	13.5	23.0	3.0	5.1	20 AWG/ Φ0.8	2	√	3days	14days
JK16900	15.0	24.0	3.0	5.1	20 AWG/ Φ0.8	2	√	3days	14days
JK161000	18.0	26.0	3.0	5.1	20 AWG/ Φ0.8	2	√	3days	14days
JK161100	18.0	26.0	3.0	5.1	20 AWG/ Φ0.8	2	√	3days	14days
JK161200	22.5	26.0	3.0	10.2	20 AWG/ Φ0.8	2	√	3days	14days
JK161300	24.0	30.0	3.0	10.2	20 AWG/ Φ0.8	2	√	3days	14days
JK161400	24.0	30.0	3.0	10.2	20 AWG/ Φ0.8	2	√	3days	14days

Note: Dimensions A,B,Cis the maximum size,D Values is typical tolernce of ±0.5mm

thermal Derating Chart-IH(A)

Part Number	Maximum ambient operating temperatures ℃									
	-40℃	**-20℃**	**0℃**	**25℃**	**40℃**	**50℃**	**60℃**	**70℃**	**80℃**	**85℃**
JK16010T	0.14	0.13	0.12	0.1A	0.09	0.08	0.08	0.07	0.06	0.04
JK16020T	0.37	0.33	0.3	0.25A	0.24	0.22	0.2	0.17	0.15	0.11
JK16030T	0.44	0.39	0.36	0.3A	0.28	0.26	0.24	0.21	0.18	0.14
JK16050T	0.74	0.66	0.6	0.5A	0.48	0.44	0.4	0.35	0.30	0.23
JK16075T	1.11	0.99	0.9	0.75A	0.72	0.66	0.6	0.53	0.45	0.35
JK16090T	1.33	1.18	1.08	0.9A	0.86	0.79	0.72	0.63	0.54	0.42
JK16110T	1.62	1.45	1.32	1.1A	1.05	0.96	0.88	0.78	0.67	0.51
JK16135T	1.99	1.78	1.62	1.35A	1.29	1.18	1.08	0.95	0.82	0.63
JK16160T	2.36	2.11	1.92	1.6A	1.53	1.40	1.28	1.13	0.97	0.75
JK16200T	2.96	2.64	2.4	2A	1.92	1.76	1.6	1.42	1.22	0.94
JK16300	4.44	3.96	3.6	3A	2.88	2.64	2.4	2.13	1.83	1.41
JK16400	5.92	5.28	4.8	4A	3.84	3.52	3.2	2.84	2.44	1.88
JK16500	7.4	6.6	6	5A	4.8	4.4	4	3.55	3.05	2.35
JK16600	8.88	7.92	7.2	6A	5.76	5.28	4.8	4.26	3.66	2.82
JK16700	10.36	9.24	8.4	7A	6.72	6.16	5.6	4.97	4.27	3.29
JK16800	11.84	10.56	9.6	8A	7.68	7.04	6.4	5.68	4.88	3.76
JK16900	13.32	11.88	10.8	9A	8.64	7.92	7.2	6.39	5.49	4.23
JK161000	14.8	13.2	12	10A	9.6	8.8	8	7.1	6.1	4.7
JK161100	16.28	14.52	13.2	11A	10.56	9.68	8.8	7.81	6.71	5.17
JK161200	17.76	15.84	14.4	12A	11.52	10.56	9.6	8.52	7.32	5.64
JK161300	19.24	17.16	15.6	13A	12.48	11.44	10.4	9.23	7.93	6.11
JK161400	20.72	18.48	16.8	14A	13.44	12.32	11.2	9.94	8.54	6.58

Electrical characteristics(25℃)

TÜV RoHS

Part Number	I Hold	I Trip	Vmax	Imax	Pd Max	Maximum Time to Trip		Nominal resistance（mΩ）		TUV	Delivery Time	
	A	A	DC	A	W	Current（A）	Time（S）	Rmin	Rmax	Certification	in stock	Produce
JK16010T	0.1	0.3	16V	100	0.38	0.5	5	1500	7500	-	3days	14days
JK16025T	0.25	0.5	16V	100	0.45	1.25	5	500	1950	-	3days	14days
JK16030T	0.3	0.6	16V	100	0.49	1.5	5	300	700	-	3days	14days
JK16050T	0.5	1.0	16V	100	0.56	2.5	5	200	500	-	3days	14days
JK16075T	0.75	1.5	16V	100	0.72	3.75	5	100	260	-	3days	14days
JK16090T	0.9	1.8	16V	100	0.83	4.5	5	90	180	-	3days	14days
JK16110T	1.1	2.2	16V	100	0.94	5.5	5	60	150	-	3days	14days
JK16135T	1.35	2.7	16V	100	1.2	6.75	5	40	130	-	3days	14days
JK16160T	1.6	3.2	16V	100	1.4	8	5	40	110	-	3days	14days
JK16200T	2	4	16V	100	2.2	6	15	35	75	-	3days	14days
JK16300	3	6	16V	100	2.3	9	15	20	60	√	3days	14days
JK16400	4	8	16V	100	2.4	12	15	20	40	√	3days	14days
JK16500	5	10	16V	100	2.6	15	15	14	25	√	3days	14days
JK16600	6	12	16V	100	2.8	18	15	10	21	√	3days	14days
JK16700	7	14	16V	100	3.0	21	15	8	15	√	3days	14days
JK16800	8	16	16V	100	3.0	24	15	6	13	√	3days	14days
JK16900	9	18	16V	100	3.3	27	25	4	12	√	3days	14days
JK161000	10	20	16V	100	3.7	30	30	4	11	√	3days	14days
JK161100	11	22	16V	100	3.7	33	30	3	9	√	3days	14days
JK161200	12	24	16V	100	4.2	36	30	3	8	√	3days	14days
JK161300	13	26	16V	100	4.2	39	50	3	8	√	3days	14days
JK161400	14	28	16V	100	4.2	40	50	3	7	√	3days	14days

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

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

Vmax=Maximum voltage device can withstand without damage at rated current.

Imax=Maximum fault current device can withstand tithout damage at rated voltage.

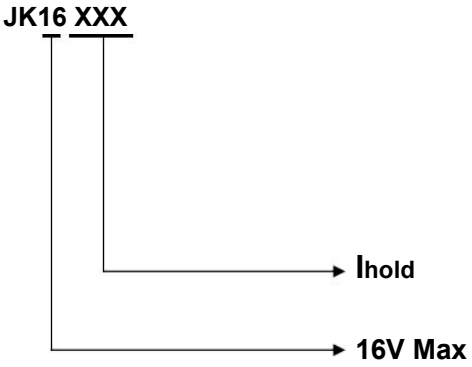
Ttrip=Maximum time to trip(s) at assigned current.

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

Rmin=Minimum device resistance at 25℃ prior to tripping.

Rmax=Maximum device resistance at 25℃ prior to tripping.

Marking System



Test Procedures and Requirements

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

Physical Characteristics

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

Operation Condition

1 Ambient temperature: -40℃～85℃

2 Humidity: ≤95%HR(40℃)

3 Atmospheric pressure: 86Kpa ~106Kpa.

4 Vibration frequency: 10Hz ~ 50Hz.

5 Acceleration: 98m/s2.

6 Storage temperature: -40℃~85℃.

7Soldering

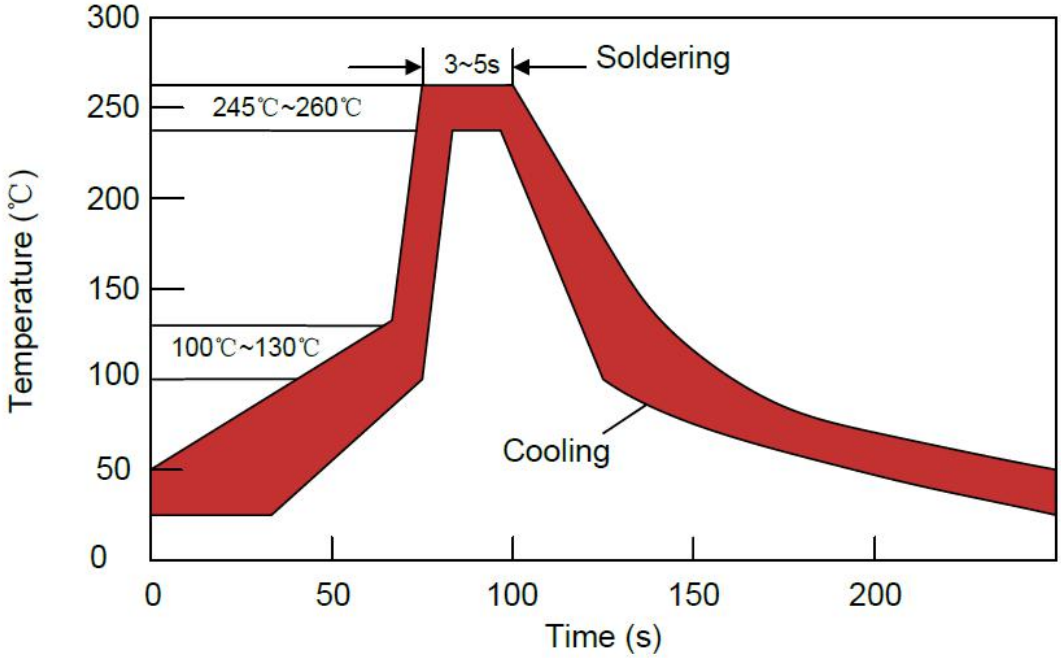
7.1 Wave Soldering:

Soldering Temperature:240℃~270℃

Soldering Time:≤5sec.

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

Wave Soldering Recommendation Parameters



7.2 Manual soldering

Soldering Temperature:280℃~300℃

Soldering Time: ≤2sec.

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



Packing quantity:

JK16010T ~ JK16600 1000Pcs/Bag or 2000Pcs/Bag

JK16700 ~ JK16900 500Pcs/Bag

JK161000 ~ JK161400 200Pcs/Bag

Warning:

PTC 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 PTC circuit production devices,However,users should imdependently evaluate and test the suitability of each product.HUAAN makes on warranties as to the acduracy or completeness of the information and disclaims any liatility resulting form its use, HUAAN'sonly obligations are those im the HUAAN Standard Rerms and Conditions of Sale and in no case will HUAAN be liable for any incidental,imdirect,or consequential damages arising from the sale,resale,or misues of its products. HUAAN reserves the right to change of update,without notice,any information contained in this specification.