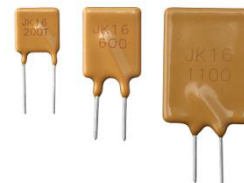


## Polymer PTC Resettable JK16 Series

### 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 C TO 85 C
- ◇ Agency recognition: TUV



### Product Dimensions

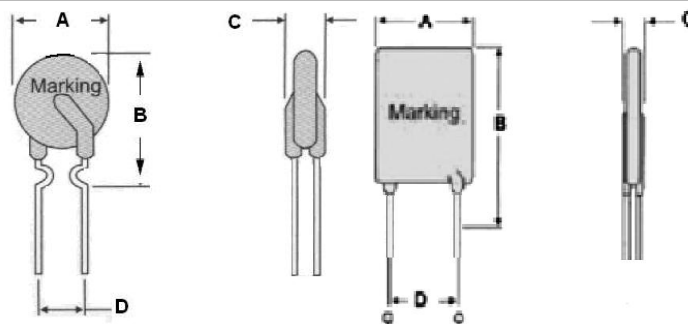


Fig.1 Fig.2

Unit : mm

JK16 Series

Model	Dimensions (mm)				Lead material	Shape
	A(max)	B(max)	C(max)	D(typ)	Tinned matel(mm)	Fig
JK16-010(T)	5.5	12.0	3.0	5.1	24 AWG/Φ0.5	1
JK16-025(T)	5.5	12.0	3.0	5.1	24 AWG/Φ0.5	1
JK16-030(T)	5.5	12.0	3.0	5.1	24 AWG/Φ0.5	1
JK16-050(T)	5.5	12.0	3.0	5.1	24 AWG/Φ0.5	1
JK16-075(T)	7.4	13.5	3.0	5.1	24 AWG/Φ0.5	1
JK16-090(T)	7.4	13.5	3.0	5.1	24 AWG/Φ0.5	1
JK16-110(T)	7.4	13.5	3.0	5.1	24 AWG/Φ0.5	1
JK16-135(T)	7.4	13.5	3.0	5.1	24 AWG/Φ0.5	1
JK16-160(T)	7.4	14.0	3.0	5.1	24 AWG/Φ0.5	1
JK16-200(T)	9.0	12.0	3.0	5.1	24 AWG/Φ0.5	2
JK16-300	9.0	12.0	3.0	5.1	20 AWG/Φ0.8	2
JK16-400	10.0	13.0	3.0	5.1	20 AWG/Φ0.8	2
JK16-500	10.0	17.5	3.0	5.1	20 AWG/Φ0.8	2



JK16-600	13.5	17.5	3.0	5.1	20 AWG/Φ0.8	2
JK16-700	13.5	23.0	3.0	5.1	20 AWG/Φ0.8	2
JK16-800	13.5	23.0	3.0	5.1	20 AWG/Φ0.8	2
JK16-900	15.0	24.0	3.0	5.1	20 AWG/Φ0.8	2
JK16-1000	18.0	26.0	3.0	5.1	20 AWG/Φ0.8	2
JK16-1100	18.0	26.0	3.0	5.1	20 AWG/Φ0.8	2
JK16-1200	22.5	26.0	3.0	10.2	20 AWG/Φ0.8	2
JK16-1300	24.0	30.0	3.0	10.2	20 AWG/Φ0.8	2
JK16-1400	24.0	30.0	3.0	10.2	20 AWG/Φ0.8	2

Note: ① Dimensions A, B, C is the maximum size, D values are typical tolerance of ± 0.50mm

## Thermal Derating Chart-IH (A)

### JK16 Series

Model	Maximum ambient operating temperatures (°C)									
	-40	-20	0	25	40	50	60	70	80	85
JK16-010(T)	0.14	0.13	0.12	0.1	0.09	0.08	0.08	0.07	0.06	0.04
JK16-025(T)	0.37	0.33	0.3	0.25	0.24	0.22	0.2	0.17	0.15	0.11
JK16-030(T)	0.44	0.39	0.36	0.3	0.28	0.26	0.24	0.21	0.18	0.14
JK16-050(T)	0.74	0.66	0.6	0.5	0.48	0.44	0.4	0.35	0.30	0.23
JK16-075(T)	1.11	0.99	0.9	0.75	0.72	0.66	0.6	0.53	0.45	0.35
JK16-090(T)	1.33	1.18	1.08	0.9	0.86	0.79	0.72	0.63	0.54	0.42
JK16-110(T)	1.62	1.45	1.32	1.1	1.05	0.96	0.88	0.78	0.67	0.51
JK16-135(T)	1.99	1.78	1.62	1.35	1.29	1.18	1.08	0.95	0.82	0.63
JK16-160(T)	2.36	2.11	1.92	1.6	1.53	1.40	1.28	1.13	0.97	0.75
JK16-200(T)	2.96	2.64	2.4	2	1.92	1.76	1.6	1.42	1.22	0.94
JK16-300	4.44	3.96	3.6	3	2.88	2.64	2.4	2.13	1.83	1.41
JK16-400	5.92	5.28	4.8	4	3.84	3.52	3.2	2.84	2.44	1.88
JK16-500	7.4	6.6	6	5	4.8	4.4	4	3.55	3.05	2.35
JK16-600	8.88	7.92	7.2	6	5.76	5.28	4.8	4.26	3.66	2.82
JK16-700	10.36	9.24	8.4	7	6.72	6.16	5.6	4.97	4.27	3.29
JK16-800	11.84	10.56	9.6	8	7.68	7.04	6.4	5.68	4.88	3.76
JK16-900	13.32	11.88	10.8	9	8.64	7.92	7.2	6.39	5.49	4.23
JK16-1000	14.8	13.2	12	10	9.6	8.8	8	7.1	6.1	4.7
JK16-1100	16.28	14.52	13.2	11	10.56	9.68	8.8	7.81	6.71	5.17
JK16-1200	17.76	15.84	14.4	12	11.52	10.56	9.6	8.52	7.32	5.64
JK16-1300	19.24	17.16	15.6	13	12.48	11.44	10.4	9.23	7.93	6.11
JK16-1400	20.72	18.48	16.8	14	13.44	12.32	11.2	9.94	8.54	6.58



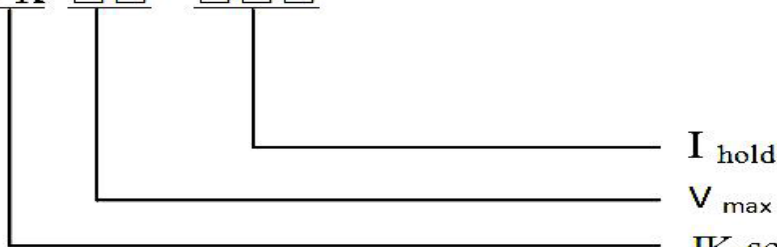
## Electrical Characteristic

### JK16 Series

Model	I <sub>Hold</sub> (A)	I <sub>Trip</sub> (A)	V <sub>max</sub>	I <sub>max</sub>	P <sub>d Max</sub>	Maximum Time to Trip		Nominal resistance (mΩ)	
			V <sub>(DC)</sub>	A	W	Current (A)	Time (S)	R <sub>min</sub>	R <sub>max</sub>
JK16-010(T)	0.1	0.3	16	100	0.38	0.5	5	1500	7500
JK16-025(T)	0.25	0.5	16	100	0.45	1.25	5	500	1950
JK16-030(T)	0.3	0.6	16	100	0.49	1.5	5	300	700
JK16-050(T)	0.5	1.0	16	100	0.56	2.5	5	200	500
JK16-075(T)	0.75	1.5	16	100	0.72	3.75	5	100	260
JK16-090(T)	0.9	1.8	16	100	0.83	4.5	5	90	180
JK16-110(T)	1.1	2.2	16	100	0.94	5.5	5	60	150
JK16-135(T)	1.35	2.7	16	100	1.2	6.75	5	40	130
JK16-160(T)	1.6	3.2	16	100	1.4	8	5	40	110
JK16-200(T)	2	4	16	100	2.2	6	15	35	75
JK16-300	3	6	16	100	2.3	9	15	20	60
JK16-400	4	8	16	100	2.4	12	15	20	40
JK16-500	5	10	16	100	2.6	15	15	14	25
JK16-600	6	12	16	100	2.8	18	15	10	21
JK16-700	7	14	16	100	3.0	21	15	8	15
JK16-800	8	16	16	100	3.0	24	15	6	13
JK16-900	9	18	16	100	3.3	27	25	4	12
JK16-1000	10	20	16	100	3.7	30	30	4	11
JK16-1100	11	22	16	100	3.7	33	30	3	9
JK16-1200	12	24	16	100	4.2	36	30	3	8
JK16-1300	13	26	16	100	4.2	39	50	3	8
JK16-1400	14	28	16	100	4.2	40	50	3	7

## Marking System

JK □□ — □□□



## Test Procedures And Requirements

### JK16 Series

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

#### JK16 Series

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/s<sup>2</sup>.

6 Storage temperature: -40 °C ~ 85 °C .

7Soldering

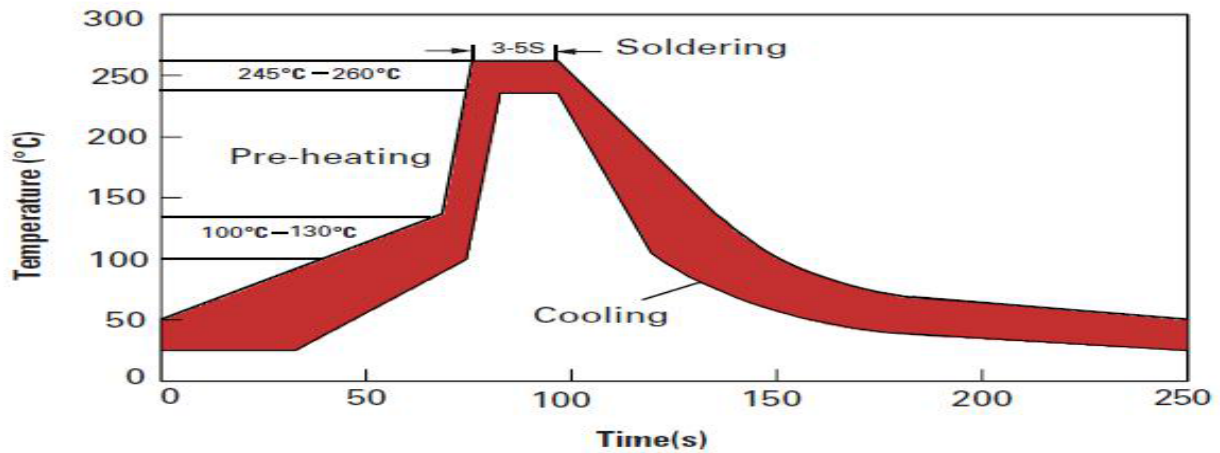
7.1 Wave Soldering:

Soldering Temperature:240 °C ~ 270 °C

Soldering Time:≤5sec.

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





*recommended curve*

## 7.2 Manual soldering

Soldering Temperature: 280°C ~ 300°C

Soldering Time: ≤ 2sec.

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

## Electrical Specifications:

$I_H$  = 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 always trip 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 without 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 device 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.

## Packaging and Storage

JK16-010(T)~JK16-600 1000Pcs/Bag or 2000Pcs/Box

JK16-700~JK16-900 500 Pcs/Bag

JK16-1000~JK16-1400 200 Pcs/Bag

