

Resettable Fuse PTC

Features

Radial leaded devices.

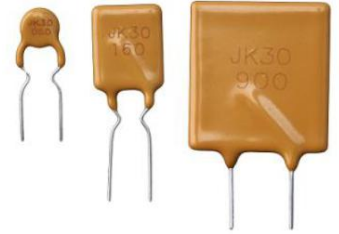
Over-current protection

High voltage surge capabilities

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(Unit:mm)

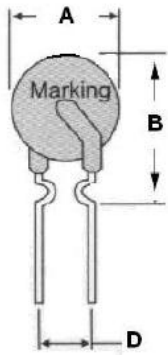


Fig1

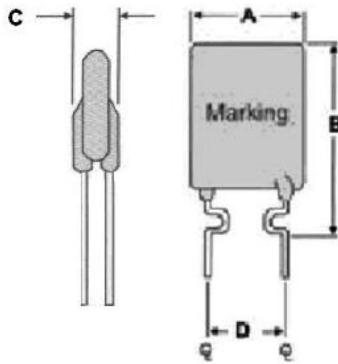


Fig2

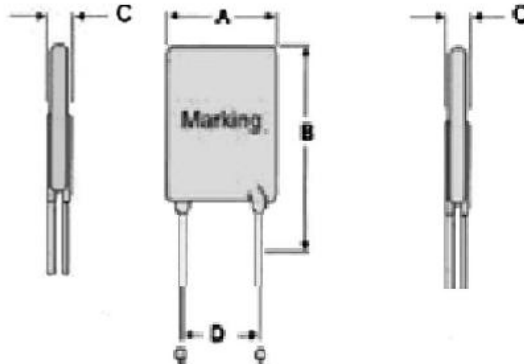


Fig3

Part Number	Maximum Contour Size(mm)				Lead material	Shape
	A	B	C	D	Tinned Matel(mm)	Fig
JK30-050	7.40	12.7	3	5.10	24 AWG/ Φ0.5	Fig1
JK30-075	7.40	13.0	3	5.10	24 AWG/ Φ0.5	Fig1
JK30-090	7.40	18.5	3	5.10	24 AWG/ Φ0.5	Fig2
JK30-110	7.40	18.5	3	5.10	24 AWG/ Φ0.5	Fig2
JK30-120	7.40	18.5	3	5.10	24 AWG/ Φ0.5	Fig2
JK30-135	9.20	17.6	3	5.10	24 AWG/ Φ0.5	Fig2
JK30-160	9.20	20.2	3	5.10	24 AWG/ Φ0.5	Fig2
JK30-185	9.20	20.2	3	5.10	24 AWG/ Φ0.5	Fig2
JK30-200	15.2	20.2	3	5.10	24 AWG/ Φ0.5	Fig2
JK30-250	13.2	22.4	3	5.10	24 AWG/ Φ0.5	Fig2
JK30-300	13.2	20.4	3	5.10	20 AWG/ Φ0.8	Fig3
JK30-400	14.0	23.7	3	5.10	20 AWG/ Φ0.8	Fig3
JK30-500	14.0	23.7	3	10.2	20 AWG/ Φ0.8	Fig3

JK30-600	17.2	27	3	10.2	20 AWG/ Φ 0.8	Fig3
JK30-700	17.2	27	3	10.2	20 AWG/ Φ 0.8	Fig3
JK30-800	23.5	29.2	3	10.2	20 AWG/ Φ 0.8	Fig3
JK30-900	23.5	29.2	3	10.2	20 AWG/ Φ 0.8	Fig3

Note: Dimensions A,B,C is the maximum size,D Values is typical tolerance of $\pm 0.5\text{mm}$

Thermal Derating Chart-IH (A)

JK30 Series

Part Number	Maximum ambient operating temperatures ($^{\circ}\text{C}$)									
	-40	-20	0	25	40	50	60	70	80	85
JK30-050	0.72	0.65	0.57	0.5	0.45	0.41	0.38	0.34	0.30	0.25
JK30-075	1.08	0.97	0.86	0.75	0.68	0.62	0.57	0.51	0.45	0.37
JK30-090	1.30	1.17	1.03	0.9	0.81	0.74	0.69	0.61	0.54	0.45
JK30-110	1.59	1.43	1.26	1.1	1.0	0.91	0.84	0.74	0.67	0.55
JK30-120	1.74	1.56	1.38	1.2	1.09	0.99	0.92	0.81	0.73	0.6
JK30-135	1.95	1.75	1.55	1.35	1.22	1.12	1.03	0.91	0.82	0.67
JK30-160	2.32	2.08	1.84	1.6	1.45	1.32	1.23	1.08	0.97	0.8
JK30-185	2.68	2.40	2.12	1.85	1.68	1.53	1.42	1.25	1.12	0.92
JK30-200	2.9	2.6	2.3	2	1.82	1.66	1.54	1.36	1.22	1
JK30-250	3.62	3.25	2.87	2.5	2.27	2.07	1.92	1.7	1.52	1.25
JK30-300	4.35	3.9	3.45	3	2.73	2.49	2.31	2.04	1.83	1.5
JK30-400	5.8	5.2	4.6	4	3.64	3.32	3.08	2.72	2.44	2
JK30-500	7.25	6.5	5.75	5	4.55	4.15	3.85	3.4	3.05	2.5
JK30-600	8.7	7.8	6.9	6	5.46	4.98	4.62	4.08	3.66	3
JK30-700	10.15	9.1	8.05	7	6.37	5.81	5.39	4.76	4.27	3.5
JK30-800	11.6	10.4	9.2	8	7.28	6.64	6.16	5.44	4.88	4
JK30-900	13.05	11.7	10.35	9	8.19	7.47	6.93	6.12	5.49	4.5

Electrical characteristics(25°C)

Part Number	I _{Hold} (A)	I _{Trip} (A)	V _{max}	I _{max}	P _d Max	Maximum Time to Trip		Resistance (m Ω)	
			V(DC)	A	W	Current (A)	Time (S)	R _{min}	R _{max}
JK30-050	0.5	1.0	30	40	0.5	2.5	5.0	250	600
JK30-075	0.75	1.5	30	40	0.6	3.75	5.0	200	370
JK30-090	0.90	1.8	30	40	0.7	4.5	8.0	100	220
JK30-110	1.10	2.2	30	40	0.7	5.5	8.0	70	200
JK30-120	1.20	2.4	30	40	0.8	6.0	8.0	80	180
JK30-135	1.35	1.7	30	40	0.8	6.75	8.0	70	160
JK30-160	1.60	3.2	30	40	0.9	8.0	8.0	60	140

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Electrical characteristics(25°C)

Part Number	I _{Hold} (A)	I _{Trip} (A)	V _{max} V _(DC)	I _{max} A	P _{d Max} W	Maximum Time to Trip		Resistance (mΩ)	
						Current (A)	Time (S)	R _{min}	R _{max}
JK30-200	2.00	4.0	30	40	1.2	10.0	11	40	100
JK30-250	2.50	5.0	30	40	1.2	12.5	11	30	80
JK30-300	3.00	6.0	30	40	2.0	15.0	11	30	70
JK30-400	4.00	8.0	30	40	2.5	20.0	12.7	10	60
JK30-500	5.00	10	30	40	3.0	25.0	14.5	10	50
JK30-600	6.00	12	30	40	3.5	30.0	16	5	40
JK30-700	7.00	14	30	40	3.8	35.0	17.5	5	30
JK30-800	8.00	16	30	40	4.0	40.0	18.8	5	25
JK30-900	9.00	18	30	40	4.2	40.0	20	5	20

- I_H = Hold current: maximum current device will pass without tripping in 25°C still air.
- I_T = Trip current: minimum current at which the device will trip in 25°C still air.
- V_{MAXi} = Maximum interrupt voltage device can withstand without damage at rated current.
- I_{MAX} = Maximum fault current device can withstand without damage at rated voltage.
- R_{MAX} = Maximum resistance of device in initial (un-soldered) state.
- R_{MIN} = Minimum resistance of device in initial (un-soldered) state.

Ambient temperature: -40°C ~+85°C

Packing quantity:

- JK30-050 ~ JK30-250 1000pcs/Bag**
- JK30-300 ~ JK30-500 500pcs/Bag**
- JK30-600 ~ JK30-900 200pcs/Bag**



Cross Reference List (30V Series)**Cross Reference**

HUAAN Resettable Fuse Part Number	Littelfuse Resettable PTC Part Number
JK30-075	
JK30-090	30R090U
JK30-110	30R110U
JK30-120	
JK30-135	30R135U
JK30-160	30R160U
JK30-185	30R185U
JK30-200	
JK30-250	30R250U
JK30-300	30R300U
JK30-400	30R400U
JK30-500	30R500U
JK30-600	30R600U
JK30-700	30R700U
JK30-800	30R800U
JK30-900	30R900U

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