



Dimensions (Unit: mm)

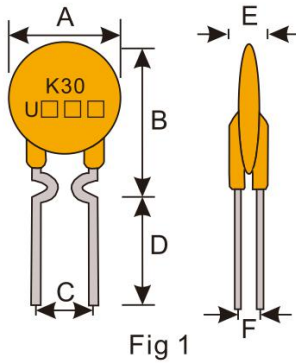


Fig 1

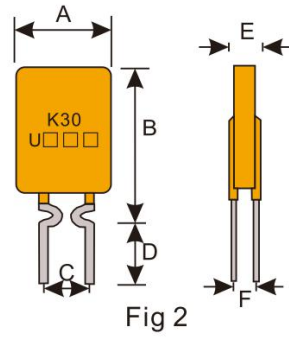


Fig 2

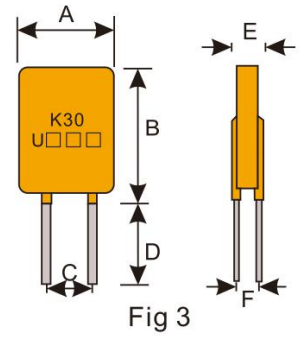


Fig 3

Part Number	Style	A	B	C	D	E	F	lead
		MAX	MAX	Typ	MIN	MAX	Typ	Φ
KU30-050	1	7.4	13.5	5.1	7.6	3.0	0.9	0.50CP
KU30-070	2	7.4	16.0	5.1	7.6	3.0	0.9	0.50CP
KU30-075	2	7.4	16.0	5.1	7.6	3.0	0.9	0.50CP
KU30-090	2	7.4	16.0	5.1	7.6	3.0	0.9	0.50CP
KU30-100	2	7.4	16.0	5.1	7.6	3.0	0.9	0.50CP
KU30-110	2	7.4	16.0	5.1	7.6	3.0	0.9	0.50CP
KU30-135	2	8.9	16.5	5.1	7.6	3.0	0.9	0.60CP
KU30-160	2	8.9	19.0	5.1	7.6	3.0	0.9	0.60CP
KU30-185	2	10.2	19.0	5.1	7.6	3.0	0.9	0.60CP
KU30-250	2	11.4	21.5	5.1	7.6	3.0	0.9	0.60 铜
KU30-300	3	11.4	17.3	5.1	7.6	3.0	1.2	0.78 铜
KU30-400	3	14.0	20.1	5.1	7.6	3.0	1.2	0.78 铜
KU30-500	3	14.0	24.9	10.2	7.6	3.0	1.2	0.78 铜
KU30-600	3	16.5	25.5	10.2	7.6	3.0	1.2	0.78 铜
KU30-700	3	19.1	26.7	10.2	7.6	3.0	1.2	0.78 铜
KU30-800	3	21.6	29.2	10.2	7.6	3.0	1.2	0.78 铜
KU30-900	3	25.5	29.7	10.2	7.6	3.0	1.2	0.78 铜

**Electrical Characteristics**

Part Number	Vmax	Imax	Ihold	Itrip	Pdmax	Max Time	Trip	Resistance	
	(V)	(A)	(A)	(A)	(W)	(A)	(s)	Rmin(Ω)	R1max(Ω)
KU30-050	30	40	0.50	1.0	1.0	2.5	10.0	0.29	0.765
KU30-070	30	40	0.70	1.4	1.0	3.5	10.0	0.14	0.330
KU30-075	30	40	0.75	1.5	1.0	3.75	10.0	0.12	0.300
KU30-090	30	40	0.90	1.80	1.0	4.50	10.0	0.07	0.180
KU30-100	30	40	1.00	2.00	1.0	5.00	10.0	0.065	0.240
KU30-110	30	40	1.10	2.20	1.0	5.50	10.0	0.05	0.150
KU30-135	30	40	1.35	2.70	1.0	6.75	10.0	0.04	0.120
KU30-160	30	40	1.60	3.20	1.0	8.00	10.0	0.03	0.105
KU30-185	30	40	1.85	3.70	1.0	9.25	10.0	0.03	0.090
KU30-250	30	40	2.50	5.00	1.2	12.5	10.3	0.02	0.060
KU30-300	30	40	3.00	6.00	2.0	15.0	10.8	0.02	0.075
KU30-400	30	40	4.00	8.00	2.5	20.0	12.7	0.01	0.045
KU30-500	30	40	5.00	10.00	3.0	25.0	14.5	0.01	0.045
KU30-600	30	40	6.00	12.00	3.5	30.0	16.0	0.005	0.030
KU30-700	30	40	7.00	14.00	3.8	35.0	17.5	0.005	0.030
KU30-800	30	40	8.00	16.00	4.0	40.0	18.8	0.005	0.030
KU30-900	30	40	9.00	18.00	4.2	45.0	20.0	0.005	0.015

**Parameter interpretation**

- IH = Hold current: maximum current device will pass without tripping in 25°C still air.
- IT = Trip current: minimum current at which the device will trip in 25°C still air.
- VMAX = Maximum voltage device can withstand without damage at rated current.
- IMAX = Maximum fault current device can withstand without damage at rated voltage.
- RMAX = Maximum resistance of device in initial (un-soldered) state.
- RMIN = Minimum resistance of device in initial (un-soldered) state.
- Pd typ. = Typical power dissipation from device when in the tripped state at 25°C still air.

**Polymeric PTC Selecting Guide**

- Determine the following operating parameters for the circuits:
  - Normal operating current ( $I_{hold}$ )
  - Maximum interrupt current ( $I_{max}$ )
  - Maximum circuit voltage ( $V_{max}$ )
  - Normal operating temperature surrounding device (min°C/max°C)
- Select the device from factor and dimension suitable for the application
- Compare the maximum rating for  $V_{max}$  and  $I_{max}$  of the PPTC device with the circuit in application and make sure the circuit's requirement does not exceed the device rating.
- Check that PPTC device's trip time (time-to-trip) will protect the circuit.
- Verify that the circuit operating temperature is within the PPTC device's normal operating temperature range.
- Verify that performance and suitability of the chosen PPTC device in the application.

## WARNING

### ■ Mechanical Stress

- PPTC devices will undergo a thermal expansion during fault condition. If PPTC devices are installed or placed in an application where the space between PPTC devices and the surrounding materials (e.g., covering materials, packaging materials, encapsulate materials and the like) is insufficient, it will cause an inhibiting effect upon the thermal expansion. Pressing, twisting, bending and other kinds of mechanical stress will also adversely affect the performance of the PPTC devices, and shall not be used or applied.

### ■ Chemical Pollutants

- Silicone-based oils, oils, solvents, gels, electrolytes, fuels, acids, and the like will adversely affect the properties of PPTC devices, and shall not be used or applied.

### ■ Electronic and Thermal Effect

- PPTC devices are secondary protection devices and are used solely for sporadic, accidental over-current or over-temperature error condition, and shall NOT be used if or when constant or repeated fault conditions (such fault conditions may be caused by, among others, incorrect pin-connection of a connector) or over-extensive trip events may occur.

- PPTC devices are different from fuses and, when a fault condition occurs, will go into high-resistance state and do not open circuit, in which case the voltage at such PPTC devices may reach a hazardous level.

- Operation over the maximum rating or other forms of improper use may cause failure, arcing, flame and/or other damage to the PPTC devices.

- Conductive material contamination, such as metal particle, may induce shortage, flame or arcing.

- Due to the inductance, the operation circuits may generate a circuit voltage ( $Ldi/dt$ ) above the rated voltage of PPTC devices, which shall not be used under such circumstances.

### ■ General

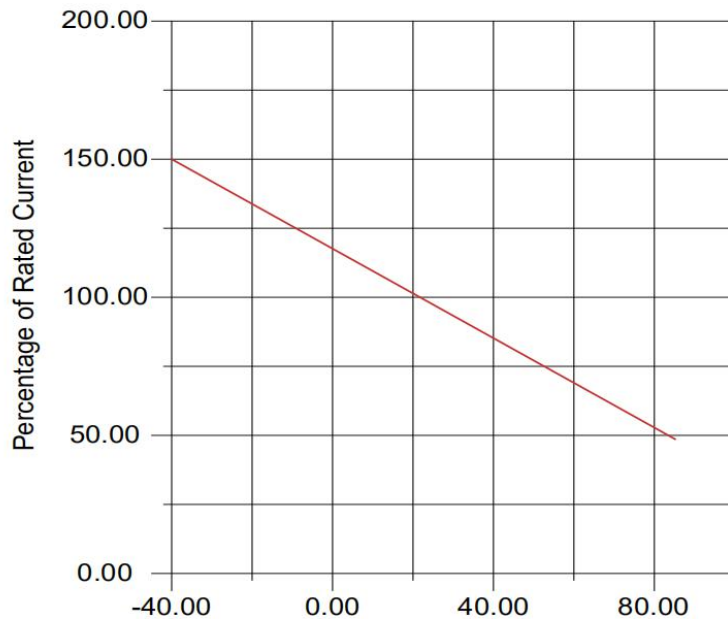
- Customers shall evaluate and test the properties of PPTC devices independently to verify and ensure that their individual applications will be met.

- The performance of PPTC devices will be adversely affected if they are improperly used under electronic, thermal and/or mechanical procedures and/or conditions non-conformant to those recommended by manufacturer.

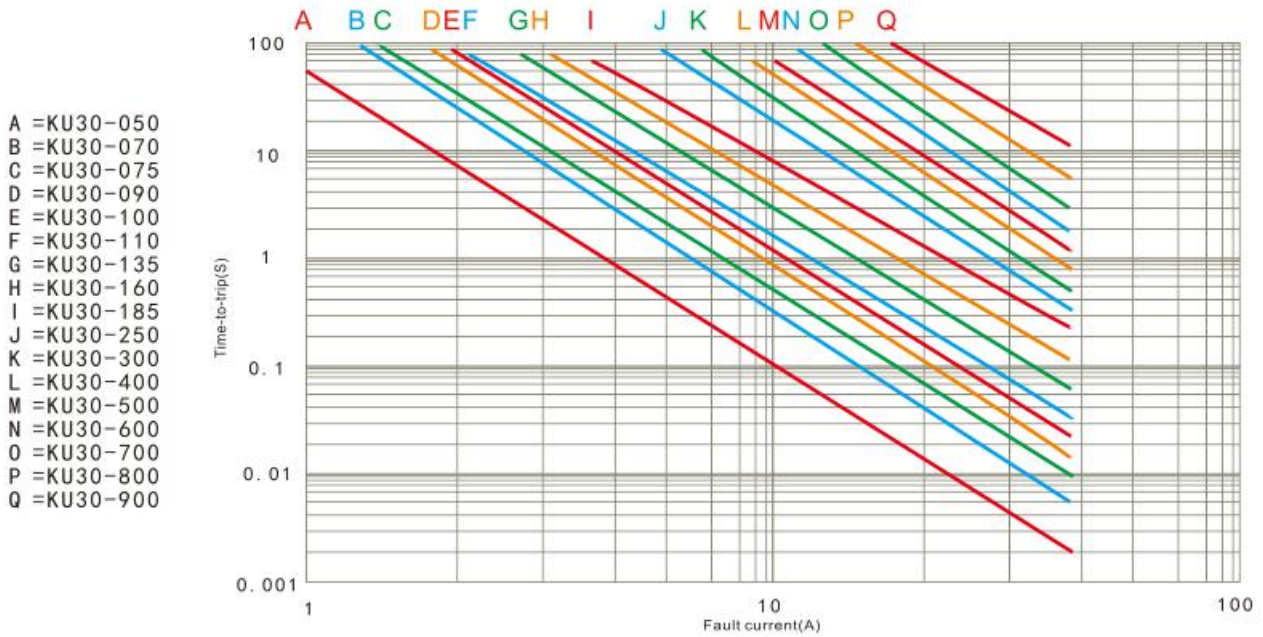
- Customers shall be responsible for determining whether it is necessary to have back-up, failsafe and/or fool-proof protection To avoid or minimize damage that may result from extra-ordinary, irregular function or failure of PPTC devices.

- Any and all responsibilities and liabilities are disclaimed if any item under this notice of warning is not complied with.

**Thermal Derating Curve**



**Typical Time-To-Trip at 25°C ±2°C**



**Storage Recommendations**

- Storage Temperature: -10°C~+40°C
- Relative Humidity: ≤80%RH
- Keep away from corrosive atmosphere and sunlight.
- Period of Storage: 1 year.

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