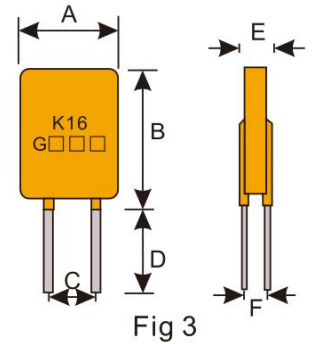
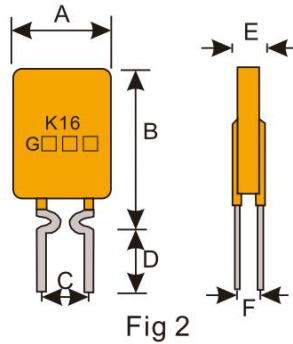
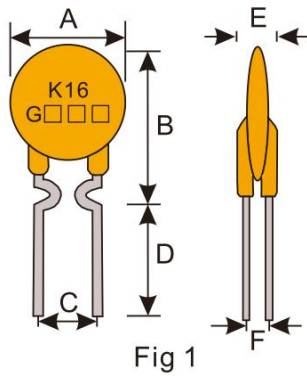




Dimensions (Unit: mm)



Part Number	Style	A	B	C	D	E	F	lead
		MAX	MAX	Typ	MIN	MAX	Typ	Φ
KG16-030	1	7.4	13.0	5.1	7.6	3.0	0.8	0.50CP
KG16-050	1	7.4	13.0	5.1	7.6	3.0	0.8	0.50CP
KG16-065	1	7.4	13.0	5.1	7.6	3.0	0.8	0.50CP
KG16-075	1	7.4	13.0	5.1	7.6	3.0	0.8	0.50CP
KG16-090	2	7.4	14.4	5.1	7.6	3.0	0.8	0.50CP
KG16-110	2	7.4	14.4	5.1	7.6	3.0	0.8	0.50CP
KG16-120	2	7.4	14.4	5.1	7.6	3.0	0.8	0.50CP
KG16-135	2	8.9	15.9	5.1	7.6	3.0	0.9	0.60CP
KG16-160	2	8.9	19.0	5.1	7.6	3.0	0.9	0.60CP
KG16-185	2	10.7	19.0	5.1	7.6	3.0	0.9	0.60CP
KG16-200	1	11.2	17.0	5.1	7.6	3.0	0.9	0.60CP
KG16-250	2	8.9	19.0	5.1	7.6	3.0	0.9	0.60CP
KG16-300	3	7.1	11.0	5.1	7.6	3.0	1.2	0.78 铜
KG16-400	3	8.9	12.8	5.1	7.6	3.0	1.2	0.78 铜
KG16-500	3	10.5	14.3	5.1	7.6	3.0	1.2	0.78 铜
KG16-600	3	11.0	17.1	5.1	7.6	3.0	1.2	0.78 铜
KG16-700	3	11.2	19.7	5.1	7.6	3.0	1.2	0.78 铜
KG16-800	3	14.0	22.0	5.1	7.6	3.0	1.2	0.78 铜
KG16-900	3	14.0	22.0	5.1	7.6	3.0	1.2	0.78 铜
KG16-1000	3	16.5	26.0	5.1	7.6	3.0	1.2	0.78 铜
KG16-1100	3	18.0	28.0	5.1	7.6	3.0	1.2	0.78 铜
KG16-1200	3	18.0	28.0	5.1	7.6	3.5	1.4	0.78 铜
KG16-1300	3	25.0	28.5	10.2	7.6	3.5	1.4	0.78 铜
KG16-1400	3	25.0	28.5	10.2	7.6	3.5	1.4	0.78 铜

**Electrical Characteristics**

Part Number	Vmax	I <sub>max</sub>	I <sub>hold</sub>	I <sub>trip</sub>	P <sub>dmax</sub>	Max Time	T <sub>rip</sub>	Resistance	
	(V)	(A)	(A)	(A)	(W)	(A)	(s)	R <sub>min</sub> (Ω)	R <sub>1max</sub> (Ω)
KG16-030	16	40	0.30	0.60	1.0	1.50	10.0	0.300	0.900
KG16-050	16	40	0.50	1.00	1.0	2.50	10.0	0.200	0.750
KG16-065	16	40	0.65	1.30	1.0	3.25	10.0	0.120	0.270
KG16-075	16	40	0.75	1.50	1.0	3.75	10.0	0.100	0.255
KG16-090	16	40	0.90	1.80	1.0	4.50	10.0	0.090	0.240
KG16-110	16	40	1.10	2.20	1.0	5.50	10.0	0.080	0.225
KG16-120	16	40	1.20	2.40	1.0	6.00	10.0	0.070	0.225
KG16-135	16	40	1.35	2.70	1.0	6.75	10.0	0.040	0.180
KG16-160	16	40	1.60	3.20	1.0	8.00	10.0	0.030	0.105
KG16-185	16	40	1.85	3.70	1.0	9.25	10.0	0.030	0.135
KG16-200	16	40	2.00	4.00	1.0	10.0	10.0	0.030	0.075
KG16-250	16	40	2.50	5.00	1.3	12.5	10.0	0.020	0.075
KG16-300	16	40	3.00	6.00	2.3	15.0	10.0	0.038	0.105
KG16-400	16	40	4.00	8.00	2.4	20.0	10.0	0.021	0.060
KG16-500	16	40	5.00	10.00	2.6	25.0	10.0	0.015	0.038
KG16-600	16	40	6.00	12.00	2.8	30.0	10.0	0.010	0.030
KG16-700	16	40	7.00	14.00	3.0	35.0	10.0	0.008	0.023
KG16-800	16	40	8.00	16.00	3.0	40.0	10.0	0.006	0.018
KG16-900	16	40	9.00	18.00	3.3	45.0	12.0	0.005	0.017
KG16-1000	16	40	10.00	20.00	3.6	50.0	12.5	0.004	0.014
KG16-1100	16	40	11.00	22.00	3.7	55.0	13.5	0.004	0.012
KG16-1200	16	40	12.00	24.00	4.2	60.0	16.0	0.004	0.011
KG16-1300	16	40	13.00	26.00	4.6	65.0	18.0	0.0035	0.0083
KG16-1400	16	40	14.00	28.00	4.6	70.0	20.0	0.003	0.0075

**Parameter interpretation**

- I<sub>H</sub> = Hold current: maximum current device will pass without tripping in 25°C still air.
- I<sub>T</sub> = Trip current: minimum current at which the device will trip in 25°C still air.
- V<sub>MAX</sub> = Maximum voltage device can withstand without damage at rated current.
- I<sub>MAX</sub> = Maximum fault current device can withstand without damage at rated voltage.
- R<sub>MAX</sub> = Maximum resistance of device in initial (un-soldered) state.
- R<sub>MIN</sub> = Minimum resistance of device in initial (un-soldered) state.
- P<sub>d typ.</sub> = 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<sub>hold</sub>)
- Maximum interrupt current (I<sub>max</sub>)
- Maximum circuit voltage (V<sub>max</sub>)
- 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

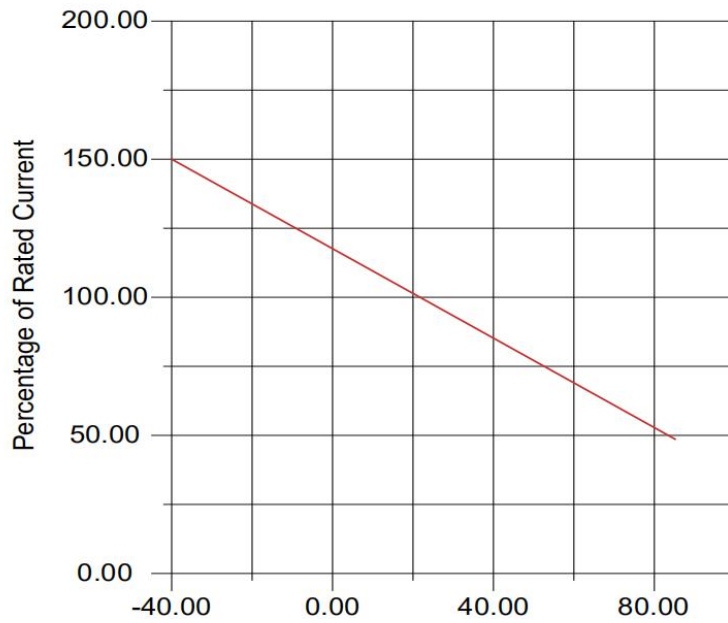
- Customers shall evaluate and test the properties of PPTC devices independently to verify and ensure that their individual applications will be met.

- 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.

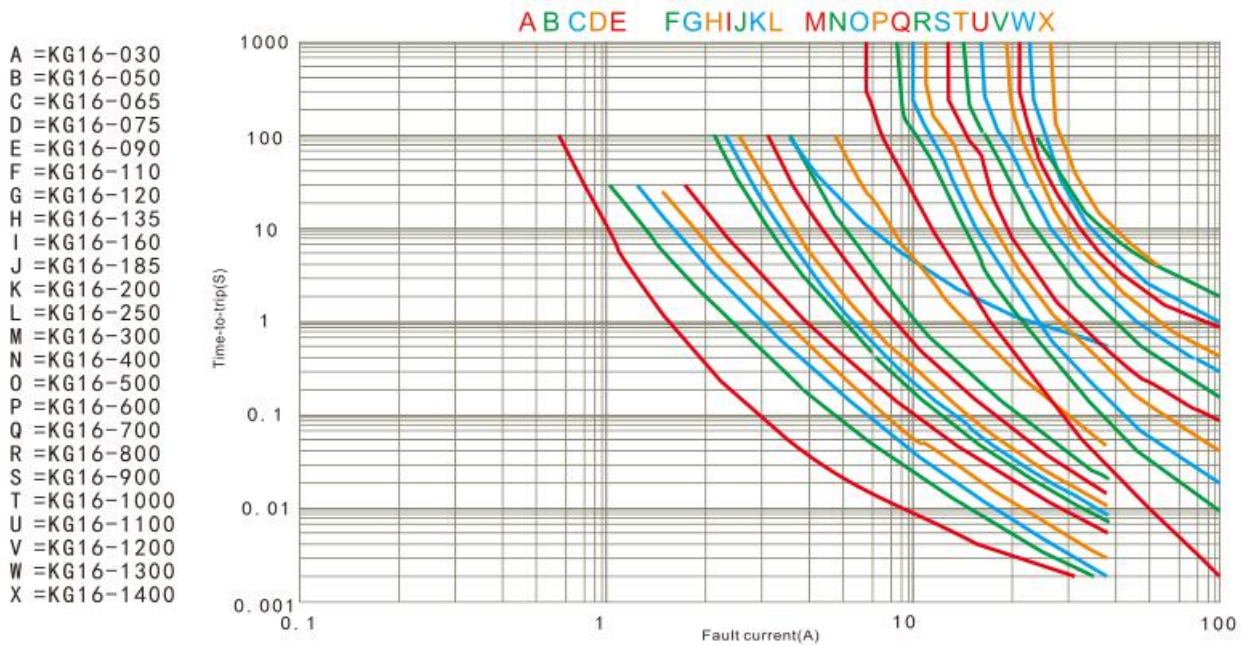
- Customers shall be responsible for determining whether it is necessary to have back-up, failsafe and/or fool-proof protection To avoid or minimize damage that may result from extra-ordinary, irregular function or failure of PPTC devices.

- 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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