

### Resettable Fuse PTC ( Low resistance)

#### Features



Radial leaded devices.

Over-current protection

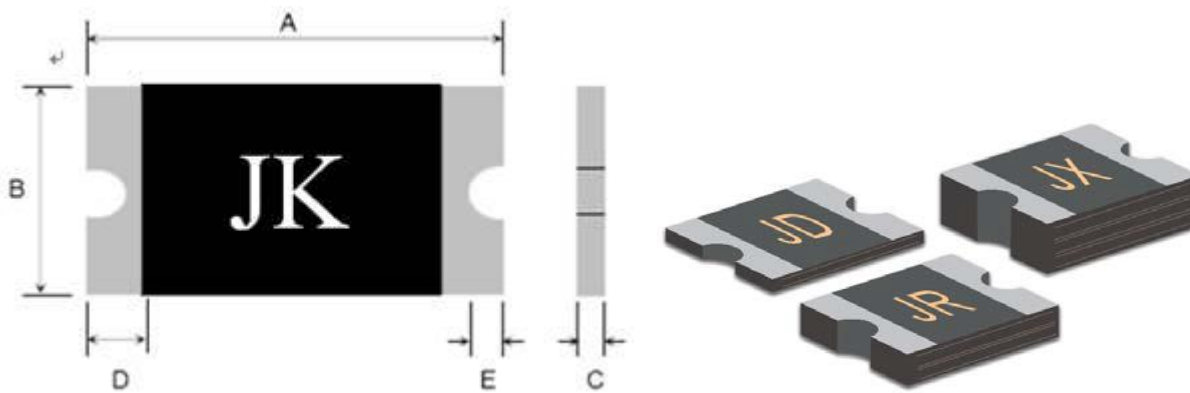
High voltage surge capabilities, Operating temperature: -40°C ~+85°C

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(3225mm / 1210 mils) Unit: mm



| Part Number        | Marking | A   |      | B    |     | C   |     | D    | E   |
|--------------------|---------|-----|------|------|-----|-----|-----|------|-----|
|                    |         | Min | max  | Min  | Max | Min | Max | Min  | Min |
| JK-SMD1210-150L    | JC      | 3.0 | 3.43 | 2.35 | 2.8 | 0.3 | 0.7 | 0.25 | 0.1 |
| JK-SMD1210-150L-12 | JC      | 3.0 | 3.43 | 2.35 | 2.8 | 0.3 | 0.7 | 0.25 | 0.1 |
| JK-SMD1210-175L    | JC      | 3.0 | 3.43 | 2.35 | 2.8 | 0.3 | 0.7 | 0.25 | 0.1 |
| JK-SMD1210-175L-12 | JC      | 3.0 | 3.43 | 2.35 | 2.8 | 0.3 | 0.7 | 0.25 | 0.1 |
| JK-SMD1210-190L    | JD      | 3.0 | 3.43 | 2.35 | 2.8 | 0.3 | 0.7 | 0.25 | 0.1 |
| JK-SMD1210-190L-12 | JD      | 3.0 | 3.43 | 2.35 | 2.8 | 0.3 | 0.7 | 0.25 | 0.1 |
| JK-SMD1210-200L    | JD      | 3.0 | 3.43 | 2.35 | 2.8 | 0.3 | 0.7 | 0.25 | 0.1 |
| JK-SMD1210-200L-12 | JD      | 3.0 | 3.43 | 2.35 | 2.8 | 0.3 | 0.7 | 0.25 | 0.1 |
| JK-SMD1210-260L    | JL      | 3.0 | 3.43 | 2.35 | 2.8 | 0.4 | 1.0 | 0.25 | 0.1 |
| JK-SMD1210-260L-12 | JL      | 3.0 | 3.43 | 2.35 | 2.8 | 0.4 | 1.0 | 0.25 | 0.1 |
| JK-SMD1210-300L    | JL      | 3.0 | 3.43 | 2.35 | 2.8 | 0.4 | 1.0 | 0.25 | 0.1 |
| JK-SMD1210-300L-12 | JL      | 3.0 | 3.43 | 2.35 | 2.8 | 0.4 | 1.0 | 0.25 | 0.1 |

Dimensions(3225mm / 1210 mils) Unit: mm

| Part Number        | Marking | A   |      | B    |     | C   |     | D    | E   |
|--------------------|---------|-----|------|------|-----|-----|-----|------|-----|
|                    |         | Min | max  | Min  | Max | Min | Max | Min  | Min |
| JK-SMD1210-350L-12 | JO      | 3.0 | 3.43 | 2.35 | 2.8 | 0.4 | 1.2 | 0.25 | 0.1 |
| JK-SMD1210-350L-12 | JO      | 3.0 | 3.43 | 2.35 | 2.8 | 0.4 | 1.2 | 0.25 | 0.1 |
| JK-SMD1210-380L-12 | JO      | 3.0 | 3.43 | 2.35 | 2.8 | 0.4 | 1.2 | 0.25 | 0.1 |
| JK-SMD1210-380L-12 | JO      | 3.0 | 3.43 | 2.35 | 2.8 | 0.4 | 1.2 | 0.25 | 0.1 |
| JK-SMD1210-400L-12 | JR      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.2 | 0.25 | 0.1 |
| JK-SMD1210-400L-12 | JR      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.2 | 0.25 | 0.1 |
| JK-SMD1210-450L-12 | JR      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.4 | 0.25 | 0.1 |
| JK-SMD1210-450L-12 | JR      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.4 | 0.25 | 0.1 |
| JK-SMD1210-500L-12 | JP      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.4 | 0.25 | 0.1 |
| JK-SMD1210-500L-12 | JP      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.4 | 0.25 | 0.1 |
| JK-SMD1210-550L-12 | JP      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.4 | 0.25 | 0.1 |
| JK-SMD1210-550L-12 | JP      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.4 | 0.25 | 0.1 |
| JK-SMD1210-600L-12 | JT      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.6 | 0.25 | 0.1 |
| JK-SMD1210-600L-12 | JT      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.6 | 0.25 | 0.1 |
| JK-SMD1210-650L-12 | JT      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.6 | 0.25 | 0.1 |
| JK-SMD1210-650L-12 | JT      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.6 | 0.25 | 0.1 |
| JK-SMD1210-700L-12 | JX      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.6 | 0.25 | 0.1 |
| JK-SMD1210-700L-12 | JX      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.6 | 0.25 | 0.1 |
| JK-SMD1210-750L-12 | JX      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.6 | 0.25 | 0.1 |
| JK-SMD1210-750L-12 | JX      | 3.0 | 3.43 | 2.35 | 2.8 | 0.5 | 1.6 | 0.25 | 0.1 |

### Electrical characteristics(25°C)

| Part Number        | lh (A) | lt (A) | Vmax (V) | I <sub>max</sub> (A) | Pd(W) | Trip Current(A) | Trip Time(S) | Rmin (Ω) | R1max (Ω) |
|--------------------|--------|--------|----------|----------------------|-------|-----------------|--------------|----------|-----------|
| JK-SMD1210-150L    | 1.5    | 3.0    | 6        | 50                   | 0.8   | 8.0             | 2.0          | 0.01     | 0.06      |
| JK-SMD1210-150L-12 | 1.5    | 3.0    | 12       | 50                   | 0.8   | 8.0             | 2.0          | 0.01     | 0.06      |
| JK-SMD1210-175L    | 1.75   | 3.5    | 6        | 50                   | 0.8   | 8.0             | 2.0          | 0.005    | 0.04      |
| JK-SMD1210-175L-12 | 1.75   | 3.5    | 12       | 50                   | 0.8   | 8.0             | 2.0          | 0.005    | 0.04      |

Electrical characteristics(25°C)

| Part Number        | Ih<br>(A) | It<br>(A) | Vmax<br>(V) | Imax<br>(A) | Pd(W) | Trip<br>Current(A) | Trip<br>Time(S) | Rmin<br>(Ω) | R1max<br>(Ω) |
|--------------------|-----------|-----------|-------------|-------------|-------|--------------------|-----------------|-------------|--------------|
| JK-SMD1210-190L    | 1.9       | 3.8       | 6           | 50          | 0.8   | 8.0                | 3.0             | 0.006       | 0.037        |
| JK-SMD1210-190L-12 | 1.9       | 3.8       | 12          | 50          | 0.8   | 8.0                | 3.0             | 0.006       | 0.037        |
| JK-SMD1210-200L    | 2.0       | 4.0       | 6           | 50          | 0.8   | 8.0                | 3.0             | 0.006       | 0.035        |
| JK-SMD1210-200L-12 | 2.0       | 4.0       | 12          | 50          | 0.8   | 8.0                | 3.0             | 0.006       | 0.035        |
| JK-SMD1210-260L    | 2.6       | 5.2       | 6           | 50          | 0.8   | 13.0               | 2.0             | 0.003       | 0.025        |
| JK-SMD1210-260L-12 | 2.6       | 5.2       | 12          | 50          | 0.8   | 13.0               | 2.0             | 0.003       | 0.025        |
| JK-SMD1210-300L    | 3.0       | 6.0       | 6           | 50          | 0.8   | 15.0               | 2.0             | 0.003       | 0.02         |
| JK-SMD1210-300L-12 | 3.0       | 6.0       | 12          | 50          | 0.8   | 15.0               | 2.0             | 0.003       | 0.02         |
| JK-SMD1210-350L    | 3.5       | 7.0       | 6           | 50          | 0.8   | 17.5               | 2.0             | 0.002       | 0.018        |
| JK-SMD1210-350L-12 | 3.5       | 7.0       | 12          | 50          | 0.8   | 17.5               | 2.0             | 0.002       | 0.018        |
| JK-SMD1210-380L    | 3.8       | 7.6       | 6           | 50          | 0.8   | 19.0               | 2.0             | 0.002       | 0.016        |
| JK-SMD1210-380L-12 | 3.8       | 7.6       | 12          | 50          | 0.8   | 19.0               | 2.0             | 0.002       | 0.016        |
| JK-SMD1210-400L    | 4.0       | 8.0       | 6           | 50          | 0.8   | 20.0               | 2.0             | 0.002       | 0.014        |
| JK-SMD1210-400L-12 | 4.0       | 8.0       | 12          | 50          | 0.8   | 20.0               | 2.0             | 0.002       | 0.014        |
| JK-SMD1210-450L    | 4.5       | 9.0       | 6           | 50          | 1.0   | 22.5               | 2.0             | 0.001       | 0.013        |
| JK-SMD1210-450L-12 | 4.5       | 9.0       | 12          | 50          | 1.0   | 22.5               | 2.0             | 0.001       | 0.013        |
| JK-SMD1210-500L    | 5.0       | 10.0      | 6           | 50          | 1.0   | 25.0               | 2.0             | 0.001       | 0.012        |
| JK-SMD1210-500L-12 | 5.0       | 10.0      | 12          | 50          | 1.0   | 25.0               | 2.0             | 0.001       | 0.012        |
| JK-SMD1210-550L    | 5.5       | 11.0      | 6           | 50          | 1.0   | 27.5               | 2.0             | 0.001       | 0.011        |
| JK-SMD1210-550L-12 | 5.5       | 11.0      | 12          | 50          | 1.0   | 27.5               | 2.0             | 0.001       | 0.011        |
| JK-SMD1210-600L    | 6.0       | 12.0      | 6           | 50          | 1.2   | 30.0               | 2.0             | 0.001       | 0.010        |
| JK-SMD1210-600L-12 | 6.0       | 12.0      | 12          | 50          | 1.2   | 30.0               | 2.0             | 0.001       | 0.010        |
| JK-SMD1210-650L    | 6.5       | 13.0      | 6           | 50          | 1.2   | 32.5               | 2.0             | 0.001       | 0.009        |
| JK-SMD1210-650L-12 | 6.5       | 13.0      | 12          | 50          | 1.2   | 32.5               | 2.0             | 0.001       | 0.009        |

### Electrical characteristics(25°C)

| Part Number        | I <sub>H</sub><br>(A) | I <sub>T</sub><br>(A) | V <sub>max</sub><br>(V) | I <sub>max</sub><br>(A) | P <sub>d</sub> (W) | Trip<br>Current(A) | Trip<br>Time(S) | R <sub>min</sub><br>(Ω) | R <sub>1max</sub><br>(Ω) |
|--------------------|-----------------------|-----------------------|-------------------------|-------------------------|--------------------|--------------------|-----------------|-------------------------|--------------------------|
| JK-SMD1210-700L    | 7.0                   | 14.0                  | 6                       | 50                      | 1.2                | 35.0               | 2.0             | 0.001                   | 0.008                    |
| JK-SMD1210-700L-12 | 7.0                   | 14.0                  | 12                      | 50                      | 1.2                | 35.0               | 2.0             | 0.001                   | 0.008                    |
| JK-SMD1210-750L    | 7.5                   | 15.0                  | 6                       | 50                      | 1.2                | 37.5               | 2.0             | 0.001                   | 0.007                    |
| JK-SMD1210-750L-12 | 7.5                   | 15.0                  | 12                      | 50                      | 1.2                | 37.5               | 2.0             | 0.001                   | 0.007                    |

- 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>MAXI</sub> = Maximum interrupt 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.



### Packing quantity:

| Part number        | Packing Quantity | Part number        | Packing Quantity |
|--------------------|------------------|--------------------|------------------|
| JK-SMD1210-150L    | 4000pcs          | JK-SMD1210-400L    | 4000pcs          |
| JK-SMD1210-150L-12 | 4000pcs          | JK-SMD1210-400L-12 | 4000pcs          |
| JK-SMD1210-175L    | 4000pcs          | JK-SMD1210-450L    | 4000pcs          |
| JK-SMD1210-175L-12 | 4000pcs          | JK-SMD1210-450L-12 | 4000pcs          |
| JK-SMD1210-190L    | 4000pcs          | JK-SMD1210-500L    | 3000pcs          |
| JK-SMD1210-190L-12 | 4000pcs          | JK-SMD1210-500L-12 | 3000pcs          |
| JK-SMD1210-200L    | 4000pcs          | JK-SMD1210-550L    | 3000pcs          |
| JK-SMD1210-200L-12 | 4000pcs          | JK-SMD1210-550L-12 | 3000pcs          |
| JK-SMD1210-260L    | 4000pcs          | JK-SMD1210-600L    | 3000pcs          |
| JK-SMD1210-260L-12 | 4000pcs          | JK-SMD1210-600L-12 | 3000pcs          |
| JK-SMD1210-300L    | 4000pcs          | JK-SMD1210-650L    | 3000pcs          |
| JK-SMD1210-300L-12 | 4000pcs          | JK-SMD1210-650L-12 | 3000pcs          |
| JK-SMD1210-350L    | 3000pcs          | JK-SMD1210-700L    | 3000pcs          |
| JK-SMD1210-350L-12 | 3000pcs          | JK-SMD1210-700L-12 | 3000pcs          |
| JK-SMD1210-380L    | 3000pcs          | JK-SMD1210-750L    | 3000pcs          |
| JK-SMD1210-380L-12 | 3000pcs          | JK-SMD1210-750L-12 | 3000pcs          |

Specifications are subject to change without notice

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