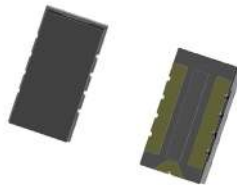


SCF9550

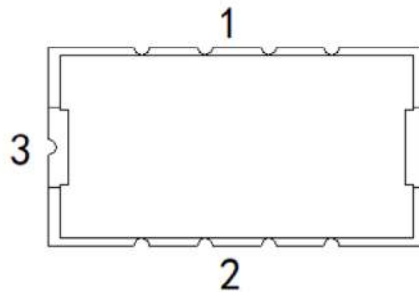
9.5 mm x 5.0 mm Surface mount self-control fuse



Product features

- Surface mount, 3 terminal fuse
- Provides overcurrent and overcharging protection
- Integrated thermal element provides triggerable operation
- Ideal for battery powered electronics
- A unique fusible device provides fast acting performance
- Moisture sensitivity level (MSL): 1

Equivalent circuit diagram



Applications

- Notebook and laptop computing
- Handheld electric power tools
- Battery powered household appliances

Agency information

cURus recognition file number:
E19180, Guide JDYX2 and JDYX8

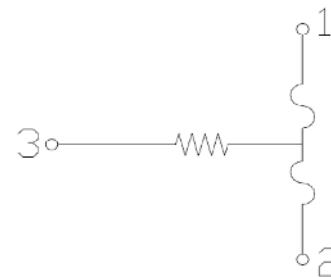
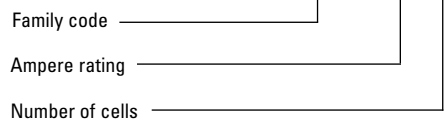


Environmental compliance



Ordering part number

SCF9550- 30 -01



Electrical characteristics

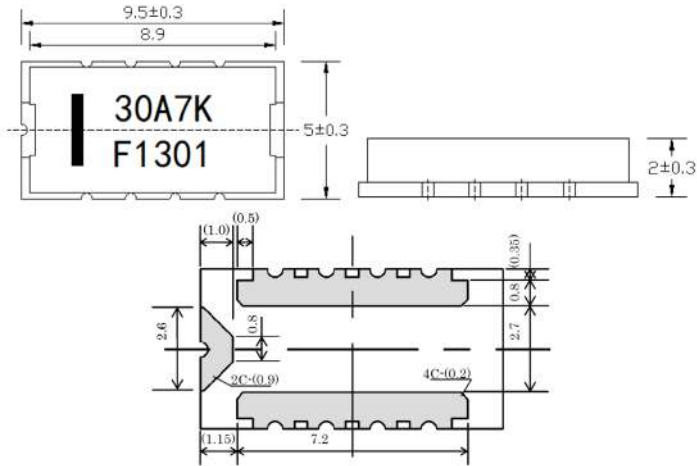
| Condition of test | Opening time |
|------------------------|--------------------|
| 100% of current rating | 1 hour minimum |
| 200% of current rating | 60 seconds maximum |
| Operating voltage | 60 seconds maximum |

Product specifications

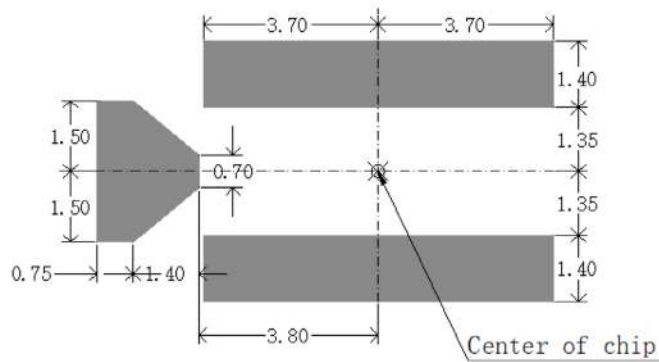
| Part number | Current rating (A) | Voltage rating ¹ (Vdc) | Heater DCR (Ω) | Operating voltage (V) | Breaking capacity (A) | Fuse DCR (mΩ) | Applicable cells in series | Part Marking | Agency approval cURus |
|----------------|--------------------|-----------------------------------|----------------|-----------------------|-----------------------|---------------|----------------------------|--------------|-----------------------|
| SCF9550-30-01 | 30 | 62 | 0.8 - 1.2 | 4.0 - 6.6 | 80 | 1.0 - 2.5 | 1 | 30A1K | √ |
| SCF9550-30-02 | 30 | 62 | 1.1 - 2.3 | 5.6 - 9.0 | 80 | 1.0 - 2.5 | 2 | 30A2K | √ |
| SCF9550-30-03 | 30 | 62 | 3.2 - 5.2 | 8.4 - 13.2 | 80 | 1.0 - 2.5 | 3 | 30A3K | √ |
| SCF9550-30-05 | 30 | 62 | 4.8 - 8.0 | 10.5 - 23.5 | 80 | 1.0 - 2.5 | 4-5 | 30A4K | √ |
| SCF9550-30-07 | 30 | 62 | 18.8 - 31.2 | 20.2 - 31.5 | 80 | 1.0 - 2.5 | 6-7 | 30A7K | √ |
| SCF9550-30-08 | 30 | 80 | 24.0 - 52.0 | 26.4 - 36.0 | 80 | 1.0 - 2.5 | 8 | 30A9K2 | |
| SCF9550-30-10 | 30 | 80 | 40.0 - 60.0 | 28.0 - 47.0 | 80 | 1.0 - 2.5 | 10 | 30A10K | √ |
| SCF9550-30-12 | 30 | 80 | 35.0 - 70.0 | 33.6 - 54.0 | 80 | 1.0 - 2.5 | 12 | 30A10K2 | |
| SCF9550-30-13 | 30 | 80 | 65.0 - 100.0 | 36.2 - 58.5 | 80 | 1.0 - 2.5 | 13 | 30A10K4 | |
| SCF9550-30-14 | 30 | 80 | 40.0 - 60.0 | 28.0 - 62.0 | 80 | 1.0 - 2.5 | 10-14 | 30A14K | √ |
| SCF9550-30-17 | 30 | 80 | 59.0 - 120.0 | 42.0 - 74.8 | 80 | 1.0 - 2.5 | 15-17 | 30A14K3 | |
| SCF9550-30-08L | 30 | 80 | 10.0 - 20.0 | 20.0 - 30.0 | 80 | 1.0 - 2.5 | 8 LFP | 30A9K2P | |
| SCF9550-30-14L | 30 | 80 | 36.0 - 60.0 | 35.0 - 51.8 | 80 | 1.0 - 2.5 | 14 LFP | 30A14KP | |
| SCF9550-30-16L | 30 | 80 | 42.0 - 70.0 | 36.0 - 62.0 | 80 | 1.0 - 2.5 | 16 LFP | 30A14K3P | |
| SCF9550-30-17L | 30 | 80 | 54.0 - 90.0 | 42.5 - 62.9 | 80 | 1.0 - 2.5 | 17 LFP | 30A14K4P | |
| SCF9550-30-20L | 30 | 80 | 60.0 - 100.0 | 50.0 - 74.0 | 80 | 1.0 - 2.5 | 20 LFP | 30A14K7P | |
| SCF9550-45-03 | 45 | 80 | 1.9 - 2.9 | 9.8 - 13.5 | 120 | 0.5 - 1.5 | 3 | 45A3K | √ |
| SCF9550-45-04 | 45 | 80 | 3.4 - 5.1 | 13.0 - 18.4 | 120 | 0.5 - 1.5 | 4 | 45A4K | √ |
| SCF9550-45-05 | 45 | 80 | 5.6 - 8.4 | 16.7 - 23.5 | 120 | 0.5 - 1.5 | 5 | 45A5K | √ |
| SCF9550-45-06 | 45 | 80 | 7.4 - 11.8 | 19.8 - 27.0 | 120 | 0.5 - 1.5 | 6 | 45A5K2 | |
| SCF9550-45-07 | 45 | 80 | 10.0 - 15.0 | 22.3 - 31.5 | 120 | 0.5 - 1.5 | 6-7 | 45A7K | √ |
| SCF9550-45-08 | 45 | 80 | 14.4 - 21.5 | 26.7 - 37.6 | 120 | 0.5 - 1.5 | 8 | 45A8K | √ |
| SCF9550-45-10 | 45 | 80 | 22.0 - 33.0 | 33.0 - 47.0 | 120 | 0.5 - 1.5 | 9-10 | 45A10K | √ |
| SCF9550-45-14 | 45 | 80 | 38.5 - 75.0 | 47.2 - 62.0 | 120 | 0.7 - 1.4 | 13-14 | 45A14K | √ |
| SCF9550-45-16 | 45 | 80 | 55.0 - 95.0 | 56.0 - 70.4 | 120 | 0.7 - 1.4 | 16 | 45A14K6 | |
| SCF9550-45-17 | 45 | 80 | 64.0 - 104.0 | 59.5 - 76.0 | 120 | 0.5 - 1.5 | 17 | 45A14K4 | |
| SCF9550-45-20 | 45 | 80 | 72.0 - 145.0 | 70.0 - 90.0 | 120 | 0.5 - 1.5 | 20 | 45A14K7 | |
| SCF9550-45-14L | 45 | 80 | 27.0 - 41.0 | 36.4 - 51.8 | 120 | 0.5 - 1.5 | 14 LFP | 45A14KP | |
| SCF9550-45-15L | 45 | 80 | 29.2 - 48.4 | 40.0 - 54.0 | 120 | 0.5 - 1.5 | 15 LFP | 45A14K2P | |
| SCF9550-45-16L | 45 | 80 | 35.6 - 52.4 | 41.6 - 59.2 | 120 | 0.5 - 1.5 | 16 LFP | 45A14K3P | |
| SCF9550-45-17L | 45 | 80 | 39.6 - 59.2 | 44.2 - 62.9 | 120 | 0.5 - 1.5 | 17 LFP | 45A14K4P | |
| SCF9550-45-20L | 45 | 80 | 55.0 - 75.5 | 50.0 - 74.0 | 120 | 0.5 - 1.5 | 20 LFP | 45A14K7P | |
| SCF9550-45-24L | 45 | 80 | 85.0 - 156.5 | 72.0 - 92.0 | 120 | 0.5 - 1.5 | 24 LFP | 45A14K11P | |

1. Rated voltage is the maximum voltage that the fuse can block, not the action voltage of the heater assembly

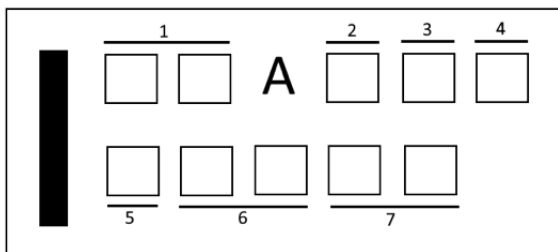
Dimensions- mm
 Drawing not to scale



Recommended pad layout



Part marking



1. Rated current: 30A, 45A
2. Number related to series number
3. Length width size code: K: 9.5 x 5.0 mm
4. Extension for (2)
5. Year: D: 2018; E: 2019.....
6. Week of year: 01, 02.....52
7. Running number: 01, 02.....

General specifications

Operating temperature: -20 °C to +60 °C

Storage temperature: -10 °C to +40 °C < 90% RH

Storage duration: 1 year

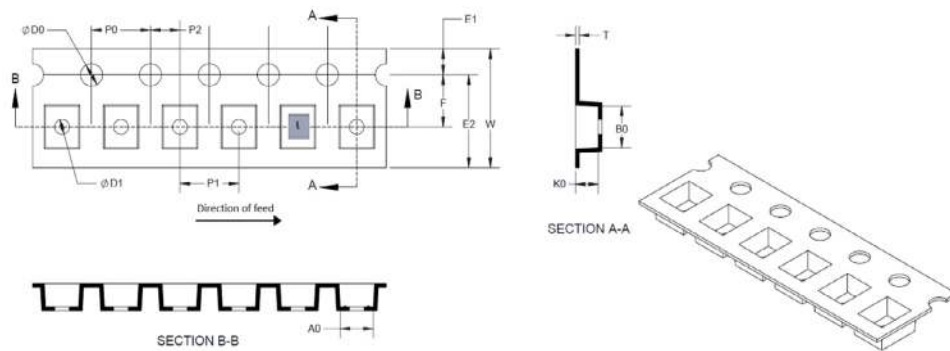
High temperature: +105 °C @ 1000 hours

Humidity: +85 °C @ 85% RH @ 500 hours

Low temperature: -40 °C @ 500 hours

Packaging information- mm

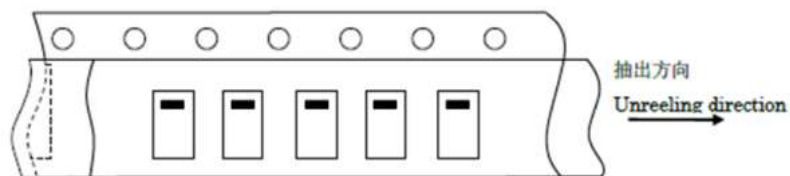
Supplied in tape and reel packaging, 3000 parts per 13" diameter reel. (EIA-481 compliant)



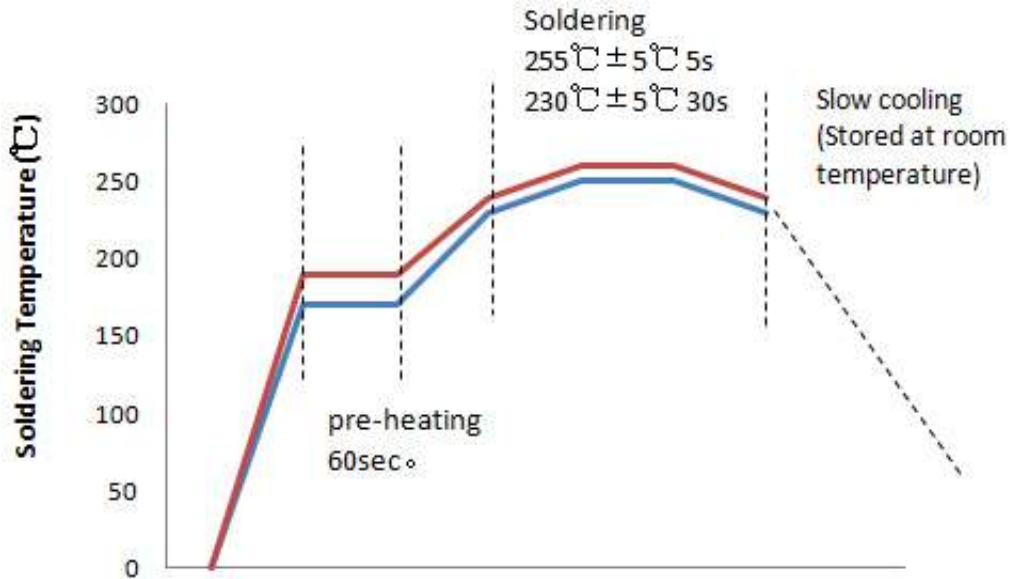
| Code | (mm) |
|------|---------------|
| E1 | 1.75 ± 0.10 |
| F | 7.50 ± 0.10 |
| P2 | 2.00 ± 0.10 |
| D0 | 1.50 + 0.1/-0 |
| D1 | 1.50 + 0.1/-0 |
| P0 | 4.00 ± 0.10 |
| 10P0 | 40.0 ± 0.20 |
| W | 16.00 ± 0.30 |
| P | 8.00 ± 0.10 |
| A0 | 5.3 ± 0.10 |
| B0 | 9.8 ± 0.10 |
| K0 | 2.3 ± 0.10 |
| T | 0.30 ± 0.05 |

Direction of taping

The direction shall be seen from the top cover tape side



Solder reflow profile



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