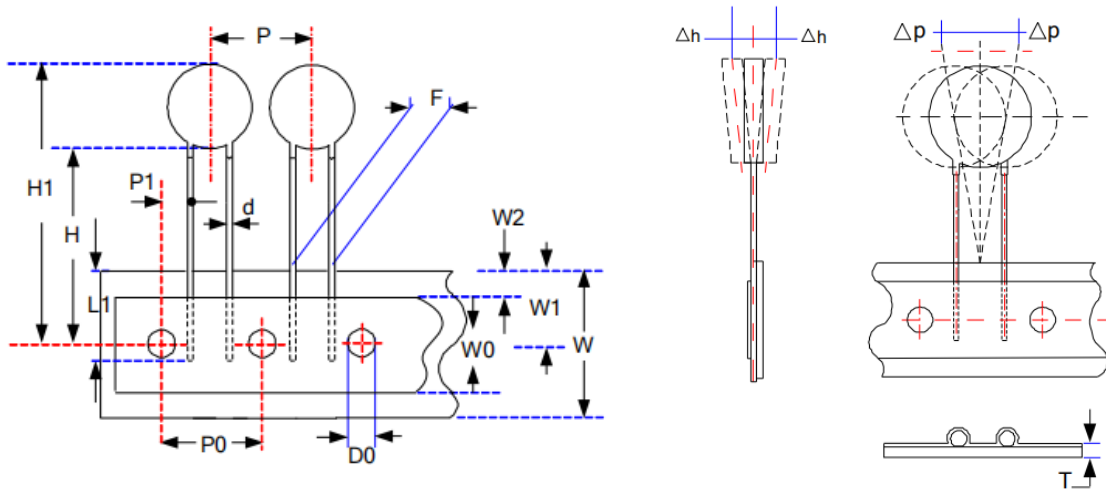


1. Structure and Dimensions



1-1 Size unit: mm

| | | | | | | | | | |
|----------|------------|---------|---------|------------|------------|-------|------------|-----------|-----------------|
| Distance | P_0 | F | P | P_1 | H_0 | H_1 | d | W_0 | 直径 diameter |
| | ± 0.3 | ± 1 | ± 1 | ± 0.7 | ± 1 | Max. | ± 0.02 | ± 1 | |
| 12.7 | 12.7 | 5.0 | 12.7 | 4.35 | 16 | 28 | 0.6 | 12 | 5.5-7.0 |
| | W_1 | W_2 | W | ΔP | Δh | L_1 | D_0 | T | 厚度 thickness |
| | +0.75/-0.5 | Max. | +1/-0.5 | Max. | Max. | Max. | ± 0.2 | ± 0.2 | |
| | 9 | 3 | 18 | 1 | 2 | 0.5 | 4 | 0.6 | 3.0-4.5 |

1-2 Coating material : Organic Silicon Resin

1-3 Coating color: Grey

1-4 Lead wire: Side bending

1-5 Lead wire type: Tinned copper wire

1-6 Logo: TBD

2. Electrical characteristics

| Item | Test condition | Requirement |
|-------------------------------------|--|----------------------|
| 2.1 Rated zero power resistance R25 | At=25±2 °C, Testing voltage≤1.5V _{DC} ; | 50Ω±20% |
| 2.2 Non-trip current | At=25°C,60Vrms/ Non-trip current , 1H | 90mA ΔR/Rn ≤50% |
| 2.3 Operating current | At =25±2 °C,220Vrms /300S into high resistance | 190mA |
| 2.4 Operating time | Ambient Temperature: 25 ± 2 °C Supply Voltage:220Vrms | 1A→0.5A<1S |
| 2.5 Curie-temperature(Tc) | 2*R25 corresponded to temperature | 120°C±7 °C |
| 2.6 Rated voltage | / | 220VAC |

| | | | |
|-----------------------|-----------------|------------------------|--|
| Semitel'S MODEL NO. : | SCPTC5.5-50R-20 | CUSTOMER'S MODEL NO. : | |
| VERSION: | A | CUSTOMER'S PART NO. : | |
| DATE: | 2021/6/7 | | |

| | | | |
|-----|---------------------------------------|---|--|
| 2.7 | Impact resistance current capacity | <p>At=25±2 °C Short circuit current waveform :100μs The minimum open circuit voltage: 1.5KV Internal resistance 40 ohms Spacing interval: 60s repeat 5 times. Recovery 4-5 hours under normal temperature</p> | <p>10/700μs $\Delta R/R_n \leq \pm 20\%$</p> |
|-----|---------------------------------------|---|--|

3. Reliability

| NO. | Item | Requirement | Test measurement |
|-----|---------------------------------|--|---|
| 3.1 | Appearance | No visible damage, clear marking | Visual testing |
| 3.2 | Solderability | At least 95% of terminal electrode covered by new solder | Refer to IEC68-2-20(GB2423.28) Ta Dip each lead into 235±5°C solder for 3~5sec to the 5mm above body |
| 3.3 | Resistance to solder heat | $ \Delta R/R_n \leq 20\%$ No damage observed | Refer to IEC68-2-20(GB2423.28) Tb Dip each lead into 260±5°C solder for 5±1S to 3mm above body. Recheck Rated zero power resistance after 4-5 hours recovery under normal temperature often wet condition. |
| 3.4 | Tensile strength of terminal | $ \Delta R/R_n \leq 20\%$ No damage observed | Refer to IEC68-2-21(GB2423.29) Test Ua: Pull force 10N, for 10 sec. Test Ub: Bending 90°, pull force 5N, twice Test Uc: Rotating 180°, twice. Recheck Rated zero power resistance after 4-5 hours recovery under normal temperature often wet condition. |
| 3.5 | Flame retardant | | Refer to IEC695-2-2 |

4. Standard Packaging (reference)

- taping and box: 1000pcs / box

5. Storage Condition of Products

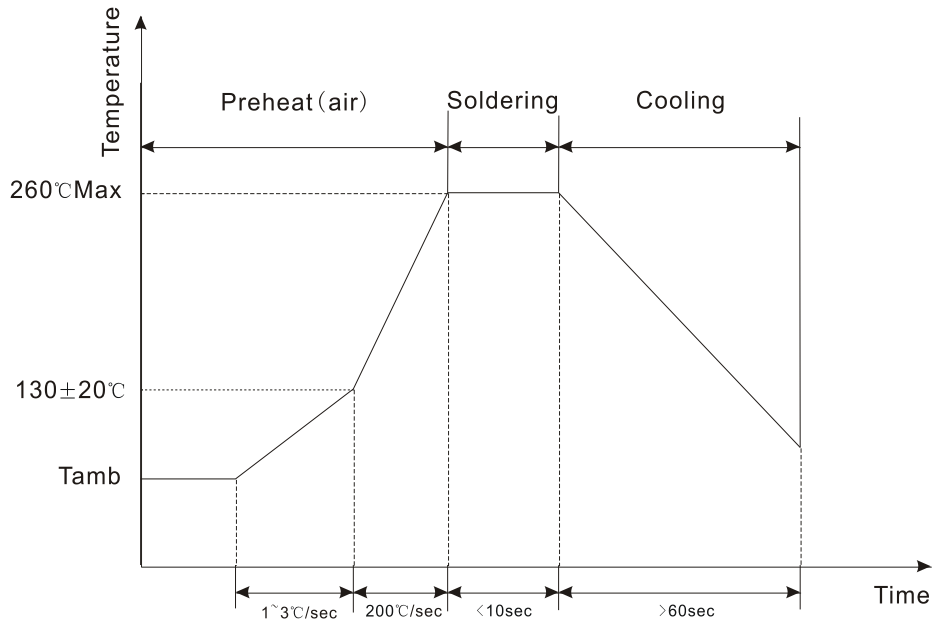
| | |
|---------------------|---|
| Storage temperature | -40~60°C |
| Relative humidity | ≤95%HR (+40°C) |
| Barometric pressure | 86 ~106Kpa |
| Vibration frequency | 10 Hz ~50Hz~10 Hz |
| Collision | 100m/s ² : 16ms |
| Other requirement | No acid, alkali and reducing atmosphere |

| | | | |
|-----------------------|-----------------|------------------------|--|
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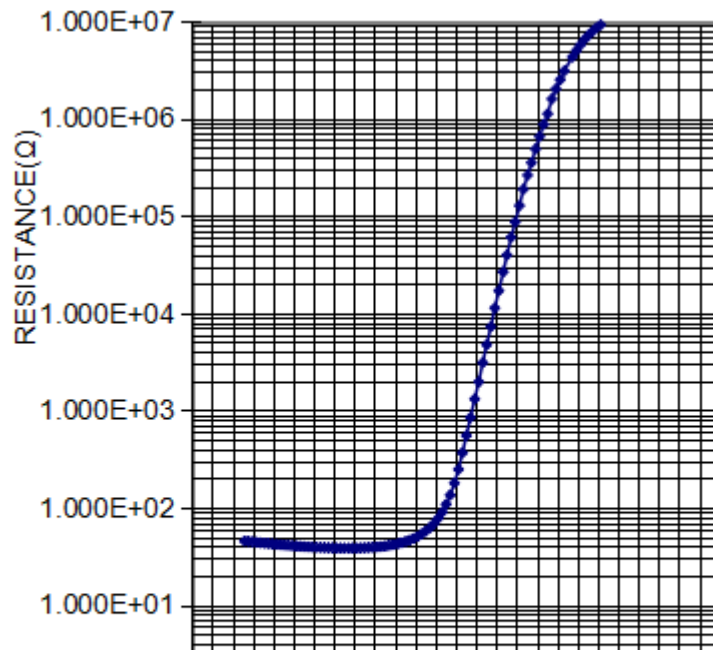
6.Recommended Reworking Conditions With Soldering Iron

| Welding condition | reference craftwork |
|------------------------------|---------------------|
| Soldering iron temperature | 360°C(max) |
| Soldering time | 2sec(max) |
| Distance to coating material | 6mm (min) |

7.Wave Flow Soldering Profile



8.Resistance-Temperature Curve



| | | | |
|-----------------------|-----------------|------------------------|--|
| Semitel'S MODEL NO. : | SCPTC5.5-50R-20 | CUSTOMER'S MODEL NO. : | |
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