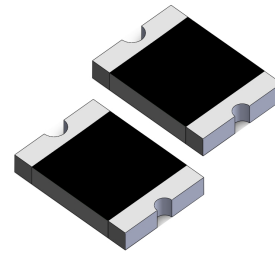


## Surface Mount Resettable PTCs

### SCF1812RB Series

#### Features

- ◆ RoHS Compliant & Halogen Free
- ◆ Faster tripping, 1812 Dimension, Surface mountable, Solid state
- ◆ Operation Current: 0.10A ~ 3.00A
- ◆ Maximum Voltage: 6V ~ 60Vdc
- ◆ Operating Temperature: -40°C ~ + 85°C



#### Electrical Characteristics

| Part Number      | Hold Current          | Trip Current          | Rated Voltage          | Max Current          | Typical Power          | Maximum Time To Trip |             | Resistance           |                       |
|------------------|-----------------------|-----------------------|------------------------|----------------------|------------------------|----------------------|-------------|----------------------|-----------------------|
|                  | I <sub>hold</sub> (A) | I <sub>trip</sub> (A) | V <sub>max</sub> (Vdc) | I <sub>max</sub> (A) | P <sub>dtyp.</sub> (W) | Current (A)          | Time (Sec.) | R <sub>min</sub> (Ω) | R <sub>1max</sub> (Ω) |
| SCF010-1812RB    | 0.10                  | 0.30                  | 60.0                   | 100                  | 0.8                    | 0.50                 | 1.50        | 0.750                | 15.000                |
| SCF014-1812RB    | 0.14                  | 0.34                  | 60.0                   | 100                  | 0.8                    | 1.50                 | 0.15        | 0.650                | 6.000                 |
| SCF020-1812RB    | 0.20                  | 0.40                  | 30.0                   | 100                  | 0.8                    | 8.0                  | 0.02        | 0.350                | 5.000                 |
| SCF030-1812RB    | 0.30                  | 0.60                  | 30.0                   | 100                  | 0.8                    | 8.0                  | 0.10        | 0.250                | 3.000                 |
| SCF035-1812RB    | 0.35                  | 0.70                  | 16.0                   | 100                  | 0.8                    | 8.0                  | 0.10        | 0.200                | 2.500                 |
| SCF035-30-1812RB | 0.35                  | 0.70                  | 30.0                   | 100                  | 0.8                    | 8.0                  | 0.10        | 0.200                | 2.500                 |
| SCF050-1812RB    | 0.50                  | 1.00                  | 15.0                   | 100                  | 0.8                    | 8.0                  | 0.15        | 0.150                | 1.000                 |
| SCF050-24-1812RB | 0.50                  | 1.00                  | 24.0                   | 100                  | 0.8                    | 8.0                  | 0.15        | 0.150                | 1.000                 |
| SCF050-30-1812RB | 0.50                  | 1.00                  | 30.0                   | 100                  | 0.8                    | 8.0                  | 0.15        | 0.150                | 1.000                 |
| SCF050-60-1812RB | 0.50                  | 1.00                  | 60.0                   | 40                   | 0.8                    | 8.0                  | 0.15        | 0.150                | 1.400                 |
| SCF075-1812RB    | 0.75                  | 1.50                  | 13.2                   | 100                  | 0.8                    | 8.0                  | 0.20        | 0.090                | 0.450                 |
| SCF075-24-1812RB | 0.75                  | 1.50                  | 24.0                   | 100                  | 0.8                    | 8.0                  | 0.20        | 0.090                | 0.450                 |
| SCF075-33-1812RB | 0.75                  | 1.50                  | 33.0                   | 100                  | 0.8                    | 8.0                  | 0.20        | 0.090                | 0.450                 |
| SCF110-1812RB    | 1.10                  | 2.20                  | 8.0                    | 100                  | 0.8                    | 8.0                  | 0.30        | 0.050                | 0.250                 |
| SCF110-16-1812RB | 1.10                  | 2.20                  | 16.0                   | 100                  | 0.8                    | 8.0                  | 0.30        | 0.050                | 0.250                 |
| SCF110-24-1812RB | 1.10                  | 2.20                  | 24.0                   | 100                  | 0.8                    | 8.0                  | 0.30        | 0.050                | 0.250                 |
| SCF110-33-1812RB | 1.10                  | 2.20                  | 33.0                   | 100                  | 0.8                    | 8.0                  | 0.30        | 0.050                | 0.250                 |
| SCF125-1812RB    | 1.25                  | 2.50                  | 8.0                    | 100                  | 0.8                    | 8.0                  | 0.40        | 0.050                | 0.200                 |
| SCF125-16-1812RB | 1.25                  | 2.50                  | 16.0                   | 100                  | 0.8                    | 8.0                  | 0.40        | 0.050                | 0.200                 |
| SCF150-1812RB    | 1.50                  | 3.00                  | 8.0                    | 100                  | 0.8                    | 8.0                  | 0.50        | 0.040                | 0.160                 |
| SCF150-16-1812RB | 1.50                  | 3.00                  | 16.0                   | 100                  | 0.8                    | 8.0                  | 0.50        | 0.040                | 0.160                 |
| SCF150-24-1812RB | 1.50                  | 3.00                  | 24.0                   | 100                  | 0.8                    | 8.0                  | 0.50        | 0.040                | 0.160                 |
| SCF160-1812RB    | 1.60                  | 2.80                  | 8.0                    | 100                  | 0.8                    | 8.0                  | 1.00        | 0.030                | 0.130                 |
| SCF160-16-1812RB | 1.60                  | 2.80                  | 16                     | 40                   | 1.0                    | 8.0                  | 1.00        | 0.030                | 0.130                 |
| SCF200-1812RB    | 2.00                  | 4.00                  | 8.0                    | 100                  | 0.8                    | 8.0                  | 2.00        | 0.020                | 0.100                 |
| SCF200-12-1812RB | 2.00                  | 4.00                  | 12.0                   | 100                  | 0.8                    | 8.0                  | 2.00        | 0.020                | 0.100                 |
| SCF200-16-1812RB | 2.00                  | 4.00                  | 16.0                   | 100                  | 0.8                    | 8.0                  | 2.00        | 0.020                | 0.100                 |

## Surface Mount Resettable PTCs

### SCF1812RB Series

#### Electrical Characteristics (Continue)

| Part Number      | Hold Current   | Trip Current   | Rated Voltage   | Max Current   | Typical Power   | Maximum Time To Trip |             | Resistance             |                         |
|------------------|----------------|----------------|-----------------|---------------|-----------------|----------------------|-------------|------------------------|-------------------------|
|                  | $I_{hold}$ (A) | $I_{trip}$ (A) | $V_{max}$ (Vdc) | $I_{max}$ (A) | $P_{dtyp.}$ (W) | Current (A)          | Time (Sec.) | $R_{min}$ ( $\Omega$ ) | $R_{1max}$ ( $\Omega$ ) |
| SCF260-1812RB    | 2.60           | 5.00           | 8.0             | 100           | 1.0             | 8.0                  | 2.50        | 0.015                  | 0.050                   |
| SCF260-12-1812RB | 2.60           | 5.00           | 12.0            | 100           | 1.0             | 8.0                  | 2.50        | 0.015                  | 0.060                   |
| SCF260-16-1812RB | 2.60           | 5.00           | 16.0            | 100           | 1.0             | 8.0                  | 2.50        | 0.015                  | 0.060                   |
| SCF300-1812RB    | 3.00           | 5.00           | 6.0             | 100           | 1.0             | 8.0                  | 4.00        | 0.012                  | 0.040                   |

$I_{hold}$  = Hold Current. Maximum current device will not trip in 25 °C still air.

$I_{trip}$  = Trip Current. Minimum current at which the device will always trip in 25 °C still air.

$V_{max}$  = Maximum operating voltage device can withstand without damage at rated current ( $I_{max}$ ).

$I_{max}$  = Maximum fault current device can withstand without damage at rated voltage ( $V_{max}$ ).

$P_{dtyp.}$  = Maximum power dissipation when device is in the tripped state in 25 °C still air environment at rated voltage.

$R_{min}$  = Minimum device resistance prior to tripping at 25 °C.

$R_{1max}$  = Maximum device resistance is measured one hour post reflow.

#### Test Procedures and Requirements

| Test Item       | Test Conditions                      | Accept/Reject Criteria         |
|-----------------|--------------------------------------|--------------------------------|
| Resistance      | In still air at 25 °C                | $R_{min} \leq R \leq R_{1max}$ |
| Time to Trip    | Specified current, $V_{max}$ , 25 °C | $T \leq$ Maximum Time to Trip  |
| Holding Current | 30min, at $I_H$                      | No trip                        |
| Trip Cycle Life | $V_{max}$ , $I_{max}$ , 100cycles    | No arcing or burning           |
| Trip Endurance  | $V_{max}$ , 1 hour                   | No arcing or burning           |

#### Physical Characteristics

|                    |                                                                  |
|--------------------|------------------------------------------------------------------|
| Terminal Materials | Tin-Plated Nickle-copper                                         |
| Soldering Zone     | Meets EIA specification RS 186-9E and ANSI/J-STD-002 Category 3. |

#### Environmental Specifications

| Test Item          | Test Conditions                                     | Resistance Change                    |
|--------------------|-----------------------------------------------------|--------------------------------------|
| Passive Aging      | 85 °C, 1000 hours                                   | $\pm 10\%$                           |
| Humidity Aging     | 85 °C/85%RH. 1000 hours                             | $\pm 5\%$                            |
| Thermal Shock      | MIL-STD-202, Method 107G<br>+85 °C/-40 °C, 20 times | $\pm 33\%$ typical resistance change |
| Solvent Resistance | MIL-STD-202, Method 215                             | No change                            |
| Vibration          | ML-STD-883C, Test Condition A                       | No change                            |

# Surface Mount Resettable PTCs

## SCF1812RB Series

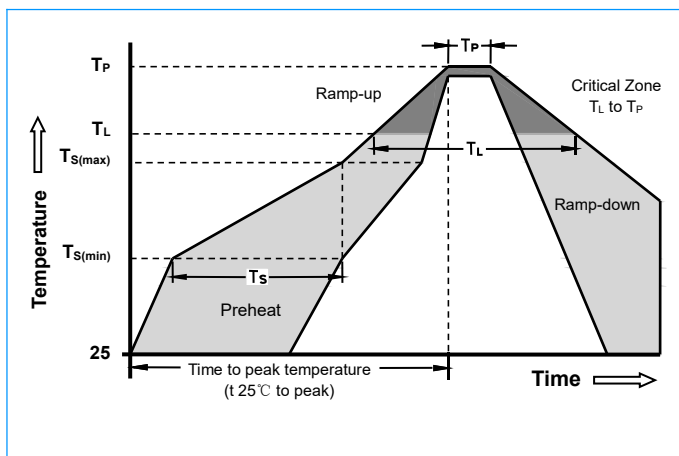
### Thermal Derating Chart - $I_H$ (A)

| Model            | Maximum Ambient Operating Temperature (°C) |      |      |      |      |      |      |      |      |
|------------------|--------------------------------------------|------|------|------|------|------|------|------|------|
|                  | -40                                        | -20  | 0    | 25   | 40   | 50   | 60   | 70   | 85   |
| SCF010-1812RB    | 0.16                                       | 0.14 | 0.12 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 |
| SCF014-1812RB    | 0.23                                       | 0.19 | 0.17 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.06 |
| SCF020-1812RB    | 0.29                                       | 0.26 | 0.23 | 0.20 | 0.17 | 0.15 | 0.14 | 0.12 | 0.10 |
| SCF030-1812RB    | 0.44                                       | 0.39 | 0.35 | 0.30 | 0.26 | 0.23 | 0.21 | 0.17 | 0.15 |
| SCF035-1812RB    | 0.51                                       | 0.46 | 0.41 | 0.35 | 0.30 | 0.27 | 0.25 | 0.21 | 0.17 |
| SCF035-30-1812RB | 0.51                                       | 0.46 | 0.41 | 0.35 | 0.30 | 0.27 | 0.25 | 0.21 | 0.17 |
| SCF050-1812RB    | 0.59                                       | 0.57 | 0.55 | 0.50 | 0.45 | 0.43 | 0.35 | 0.30 | 0.23 |
| SCF050-24-1812RB | 0.59                                       | 0.57 | 0.55 | 0.50 | 0.45 | 0.43 | 0.35 | 0.30 | 0.23 |
| SCF050-30-1812RB | 0.59                                       | 0.57 | 0.55 | 0.50 | 0.45 | 0.43 | 0.35 | 0.30 | 0.23 |
| SCF050-60-1812RB | 0.59                                       | 0.57 | 0.55 | 0.50 | 0.45 | 0.43 | 0.35 | 0.30 | 0.23 |
| SCF075-1812RB    | 1.10                                       | 0.99 | 0.87 | 0.75 | 0.63 | 0.57 | 0.49 | 0.45 | 0.35 |
| SCF075-24-1812RB | 1.10                                       | 0.99 | 0.87 | 0.75 | 0.63 | 0.57 | 0.49 | 0.45 | 0.35 |
| SCF075-33-1812RB | 1.10                                       | 0.99 | 0.87 | 0.75 | 0.63 | 0.57 | 0.49 | 0.45 | 0.35 |
| SCF110-1812RB    | 1.60                                       | 1.45 | 1.28 | 1.10 | 0.92 | 0.83 | 0.71 | 0.66 | 0.52 |
| SCF110-16-1812RB | 1.60                                       | 1.45 | 1.28 | 1.10 | 0.92 | 0.83 | 0.71 | 0.66 | 0.52 |
| SCF110-24-1812RB | 1.60                                       | 1.45 | 1.28 | 1.10 | 0.92 | 0.83 | 0.71 | 0.66 | 0.52 |
| SCF110-33-1812RB | 1.60                                       | 1.45 | 1.28 | 1.10 | 0.92 | 0.83 | 0.71 | 0.66 | 0.52 |
| SCF125-1812RB    | 2.00                                       | 1.75 | 1.52 | 1.25 | 1.00 | 0.95 | 0.90 | 0.75 | 0.53 |
| SCF125-16-1812RB | 2.00                                       | 1.75 | 1.52 | 1.25 | 1.00 | 0.95 | 0.90 | 0.75 | 0.53 |
| SCF150-1812RB    | 2.30                                       | 2.05 | 1.77 | 1.50 | 1.23 | 1.09 | 0.95 | 0.82 | 0.61 |
| SCF150-16-1812RB | 2.30                                       | 2.05 | 1.77 | 1.50 | 1.23 | 1.09 | 0.95 | 0.82 | 0.61 |
| SCF150-24-1812RB | 2.30                                       | 2.05 | 1.77 | 1.50 | 1.23 | 1.09 | 0.95 | 0.82 | 0.61 |
| SCF160-1812RB    | 2.45                                       | 2.15 | 1.89 | 1.60 | 1.34 | 1.25 | 1.15 | 0.96 | 0.79 |
| SCF160-16-1812RB | 2.45                                       | 2.15 | 1.89 | 1.60 | 1.34 | 1.25 | 1.15 | 0.96 | 0.79 |
| SCF200-1812RB    | 2.89                                       | 2.61 | 2.30 | 2.00 | 1.75 | 1.66 | 1.45 | 1.39 | 1.19 |
| SCF200-12-1812RB | 2.89                                       | 2.61 | 2.30 | 2.00 | 1.75 | 1.66 | 1.45 | 1.39 | 1.19 |
| SCF200-16-1812RB | 2.89                                       | 2.61 | 2.30 | 2.00 | 1.75 | 1.66 | 1.45 | 1.39 | 1.19 |
| SCF260-1812RB    | 3.76                                       | 3.39 | 2.99 | 2.60 | 2.28 | 2.16 | 1.89 | 1.81 | 1.55 |
| SCF260-12-1812RB | 3.38                                       | 3.05 | 2.69 | 2.60 | 2.05 | 1.94 | 1.70 | 1.63 | 1.39 |
| SCF260-16-1812RB | 3.38                                       | 3.05 | 2.69 | 2.60 | 2.05 | 1.94 | 1.70 | 1.63 | 1.39 |
| SCF300-1812RB    | 4.34                                       | 3.92 | 3.45 | 3.00 | 2.63 | 2.49 | 2.18 | 2.09 | 1.79 |

# Surface Mount Resettable PTCs

## SCF1812RB Series

### Soldering Parameters



| Profile Feature                                                                                                    | Pb-Free Assembly                 |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Average Ramp-Up Rate ( $T_S$ max to $T_P$ )                                                                        | 3°C/second max.                  |
| Preheat :<br>Temperature Min ( $T_{Smin}$ )<br>Temperature Max ( $T_{Smax}$ )<br>Time ( $T_{Smin}$ to $T_{Smax}$ ) | 150°C<br>200°C<br>60-120 seconds |
| Time maintained above:<br>Temperature( $T_L$ )<br>Time ( $T_L$ )                                                   | 217°C<br>60-150 seconds          |
| Peak/Classification Temperature( $T_P$ )                                                                           | 260°C                            |
| Time within 5 °C of actual peak temperature: Time ( $T_P$ )                                                        | 30 seconds max.                  |
| Ramp-down Rate                                                                                                     | 3°C/ second max.                 |
| Time 25°C to Peak Temperature                                                                                      | 8 minutes max.                   |

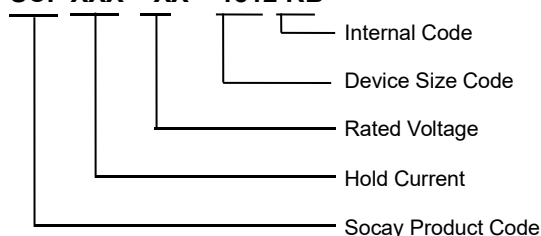
- Recommended reflow methods: IR, vapor phase oven, hot air oven, N2 environment for lead-free.
- Devices are not designed to be wave soldered to the bottom side of the board.
- Recommended maximum paste thickness is 0.25mm (0.010inch).
- Devices can be cleaned using standard industry methods and solvents.
- Soldering temperature profile meets RoHS leadfree process.

Note 1: All temperature refer to topside of the package, measured on the package body surface.

Note 2: If reflow temperature exceed the recommended profile, devices may not meet the performance requirements.

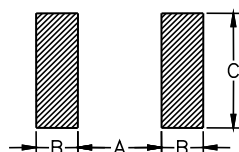
### Part Numbering

#### SCF XXX – XX – 1812 RB



### Recommended Solder Pad Layout Dimensions (Unit: mm)

The dimension in the table below provide the recommended pad layout for each SCF1812RB Series device.

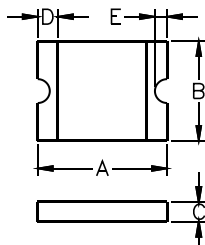


| Device      | A       | B        | C       |
|-------------|---------|----------|---------|
| 1812 Series | 3.2±0.1 | 1.78±0.1 | 3.2±0.1 |

# Surface Mount Resettable PTCs

## SCF1812RB Series

### Product Dimensions (Unit: mm)



| Part Number      | A    |      | B    |      | C    |      | D    | E    |
|------------------|------|------|------|------|------|------|------|------|
|                  | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Min. |
| SCF010-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.00 | 0.30 | 0.15 |
| SCF014-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.15 |
| SCF020-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.00 | 0.30 | 0.15 |
| SCF030-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.00 | 0.30 | 0.15 |
| SCF035-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.00 | 0.30 | 0.25 |
| SCF035-30-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.00 | 0.30 | 0.25 |
| SCF050-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 0.90 | 0.30 | 0.15 |
| SCF050-24-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 0.90 | 0.30 | 0.15 |
| SCF050-30-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 1.00 | 0.30 | 0.15 |
| SCF050-60-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.40 | 0.30 | 0.15 |
| SCF075-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 0.90 | 0.30 | 0.15 |
| SCF075-24-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.20 | 0.30 | 0.15 |
| SCF075-33-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.20 | 0.30 | 0.15 |
| SCF110-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 0.90 | 0.30 | 0.15 |
| SCF110-16-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 0.90 | 0.30 | 0.15 |
| SCF110-24-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.30 | 0.30 | 0.15 |
| SCF110-33-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.70 | 1.70 | 0.30 | 0.15 |
| SCF125-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.30 | 0.90 | 0.30 | 0.15 |
| SCF125-16-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.20 | 0.30 | 0.15 |
| SCF150-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.30 | 0.90 | 0.30 | 0.15 |
| SCF150-16-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.20 | 0.30 | 0.15 |
| SCF150-24-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.80 | 1.70 | 0.30 | 0.15 |
| SCF160-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.30 | 0.80 | 0.30 | 0.15 |
| SCF160-16-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| SCF200-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 1.20 | 0.30 | 0.15 |
| SCF200-12-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 1.20 | 0.30 | 0.15 |
| SCF200-16-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.20 | 0.30 | 0.15 |
| SCF260-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.20 | 0.30 | 0.15 |
| SCF260-12-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.15 |
| SCF260-16-1812RB | 4.37 | 4.73 | 3.07 | 3.41 | 0.80 | 1.80 | 0.30 | 0.15 |
| SCF300-1812RB    | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.50 | 0.30 | 0.15 |

# Surface Mount Resettable PTCs

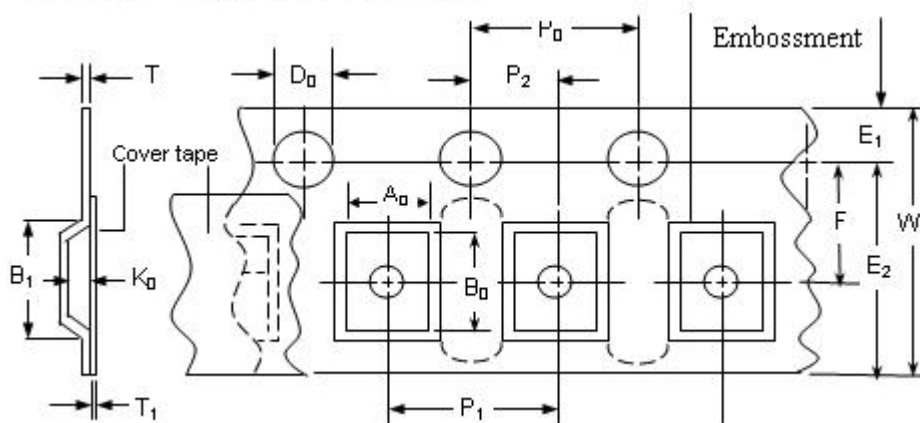
## SCF1812RB Series

### Packaging Quantity

| Part Number      | Quantity | Part Number      | Quantity |
|------------------|----------|------------------|----------|
| SCF010-1812RB    | 1500 PCS | SCF110-33-1812RB | 1500 PCS |
| SCF014-1812RB    | 1500 PCS | SCF125-1812RB    | 2000 PCS |
| SCF020-1812RB    | 1500 PCS | SCF125-16-1812RB | 1500 PCS |
| SCF030-1812RB    | 1500 PCS | SCF150-1812RB    | 2000 PCS |
| SCF035-1812RB    | 1500 PCS | SCF150-16-1812RB | 1500 PCS |
| SCF035-30-1812RB | 1500 PCS | SCF150-24-1812RB | 1500 PCS |
| SCF050-1812RB    | 2000 PCS | SCF160-1812RB    | 2000 PCS |
| SCF050-24-1812RB | 2000 PCS | SCF160-16-1812RB | 2000 PCS |
| SCF050-30-1812RB | 2000 PCS | SCF200-1812RB    | 2000 PCS |
| SCF050-60-1812RB | 1500 PCS | SCF200-12-1812RB | 1500 PCS |
| SCF075-1812RB    | 2000 PCS | SCF200-16-1812RB | 1500 PCS |
| SCF075-24-1812RB | 2000 PCS | SCF260-1812RB    | 1500 PCS |
| SCF075-33-1812RB | 1500 PCS | SCF260-12-1812RB | 1500 PCS |
| SCF110-1812RB    | 2000 PCS | SCF260-16-1812RB | 1500 PCS |
| SCF110-16-1812RB | 2000 PCS | SCF300-1812RB    | 1500 PCS |
| SCF110-24-1812RB | 1500 PCS | --               | --       |

### Tape Specifications (Unit: mm)

#### Tape Component Dimensions



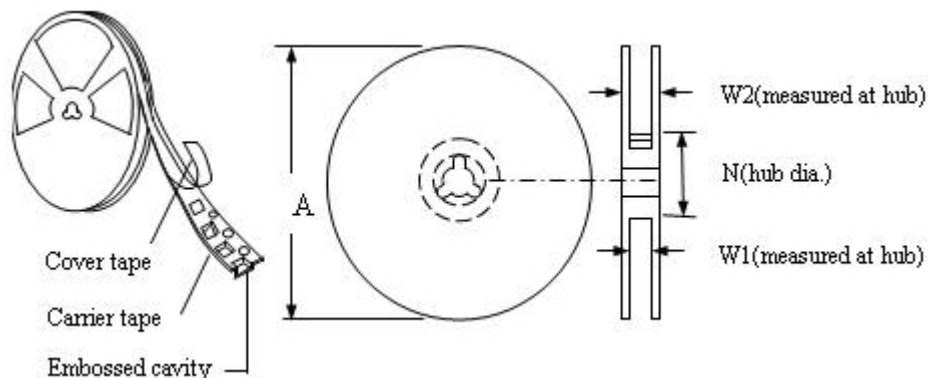
| Symbol               | Dimensions    |
|----------------------|---------------|
| <b>W</b>             | 12.00+0.30/-0 |
| <b>P<sub>0</sub></b> | 8.0±0.10      |
| <b>P<sub>1</sub></b> | 4.0±0.10      |
| <b>P<sub>2</sub></b> | 2.0±0.10      |
| <b>A<sub>0</sub></b> | 3.50±0.10     |
| <b>B<sub>0</sub></b> | 4.90±0.10     |
| <b>D<sub>0</sub></b> | 1.50+0.10/-0  |
| <b>F</b>             | 5.50±0.05     |
| <b>E<sub>1</sub></b> | 1.75±0.10     |
| <b>T</b>             | 0.30±0.10     |
| <b>Leader min.</b>   | 390           |
| <b>Trailer min.</b>  | 160           |

# Surface Mount Resettable PTCs

## SCF1812RB Series

### Reel Specifications (Unit: mm)

#### Reel Dimensions



| Symbol    | Dimensions   |
|-----------|--------------|
| <b>A</b>  | 178±1.0      |
| <b>N</b>  | 59±1.0       |
| <b>W1</b> | 8.5+1.0/-0.2 |
| <b>W2</b> | 12.0±1.0     |

### Warning



- ◆ Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.
- ◆ The electrical resistance and electrical performance specified in the specification are all tested on the test board designated after a reflow soldering. If there is a secondary soldering or other thermal processes, the performance may be attenuated.
- ◆ The holding current of PTC varies at different temperatures, please refer to the specifications and the actual ambient temperature for selection.
- ◆ PTC is designed to protect the occasional overcurrent or overheating failure phenomenon. Long-term or frequent failures will reduce the holding current of the product.
- ◆ The PTC soldering process is reflow soldering. The soldering process can refer to the temperature curve recommended in the specification. Manual soldering of PTC is prohibited. The use of hot air gun soldering of adjacent components will also affect the performance of PTC.
- ◆ PTC is a heat-sensitive component, avoid installing heat source components around it, and avoid installing it in an environment that is compressed or affects its thermal expansion.
- ◆ During installation or use, the PTC is forbidden to be mechanically damaged. It is not recommended to use liquid cleaning products containing organic solvents, which may affect the solder ability of PTC.