

# DATA SHEET

## CURRENT SENSOR - LOW TCR

AUTOMOTIVE GRADE

PE\_L series

5%, 1%, 0.5%

sizes

0201/0402/ 0603/ 0805/ 1206/ 2010/ 2512

RoHS compliant & Halogen free



**SCOPE**

This specification describes PE series current sensor - low TCR with lead-free terminations made by metal foil with ceramic substrate.

**APPLICATIONS**

- Consumer goods
- Computer
- Telecom / Datacom
- Industrial / Power supply
- Automotive
- Alternative Energy

**FEATURES**

- AEC-Q200 qualified
- Halogen-free Epoxy
- RoHS compliant
- Reduce environmentally hazardous wastes
- High component and equipment reliability
- None forbidden-materials used in products/production
- Low resistances applied to current sensing

**ORDERING INFORMATION - GLOBAL PART NUMBER**

Global part numbers are identified by the series, size, tolerance, packing type, temperature coefficient, taping reel and resistance value.

**GLOBAL PART NUMBER**

PE   XXXX   X   X   X   XX   XXXX   L  
           (1)       (2) (3) (4)   (5)       (6)       (7)

**(1) SIZE**

0201 / 0402 / 0603 / 0805 / 1206 / 2010 / 2512

**(2) TOLERANCE**

D =  $\pm 0.5\%$  ( $\geq 10\text{m}\Omega$ )    F =  $\pm 1\%$         J =  $\pm 5\%$

**(3) PACKAGING TYPE**

R = Paper / PE taping reel  
 K = Embossed taping reel

**(4) TEMPERATURE COEFFICIENT OF RESISTANCE**

E =  $\pm 50$  ppm/ $^{\circ}\text{C}$   
 M =  $\pm 75$  ppm/ $^{\circ}\text{C}$   
 F =  $\pm 100$  ppm/ $^{\circ}\text{C}$   
 J =  $\pm 350$  ppm/ $^{\circ}\text{C}$

**(5) TAPING REEL**

07 / 7W / 7T / 47 / 57 = 7 inch dia. Reel and specific rated power.  
 Detailed power rating are shown in the Table 2.

**(6) RESISTANCE VALUE**

5 m $\Omega$  to 910 m $\Omega$   
 There are 3~5 digits indicated the resistance value. Letter R is decimal point.  
 Detailed coding rules of resistance are shown in the table of "Resistance rule of global part number".

**(7) DEFAULT CODE**

Letter L is the system default code for ordering only. (Note)

| Resistance rule of global part number |                       |
|---------------------------------------|-----------------------|
| Resistance code rule                  | Example               |
| 0RXXX                                 | 0R001 = 1 m $\Omega$  |
| (1 to 910 m $\Omega$ )                | 0R1 = 100 m $\Omega$  |
|                                       | 0R91 = 910 m $\Omega$ |

**ORDERING EXAMPLE**

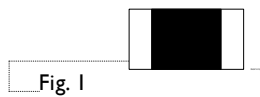
The ordering code of a PE2512 1W chip resistor, value 0.006  $\Omega$  with  $\pm 1\%$  tolerance, supplied in 7-inch tape reel is:  
**PE2512FKM070R006L**

**NOTE**

1. All our RSMD products are RoHS compliant. "LFP" of the internal 2D reel label mentions "Lead-Free Process"

## MARKING

PE0201 / PE0402



No marking

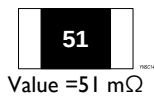
PE0603

$5\text{m}\Omega \leq R \leq 50\text{m}\Omega$

$51\text{m}\Omega \leq R \leq 910\text{m}\Omega$



Value = 10 m $\Omega$



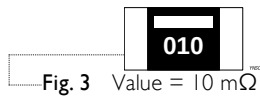
Value = 51 m $\Omega$

2 digits

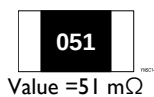
PE0805

$5\text{m}\Omega \leq R \leq 50\text{m}\Omega$

$51\text{m}\Omega \leq R \leq 910\text{m}\Omega$



Value = 10 m $\Omega$



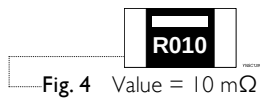
Value = 51 m $\Omega$

3 digits

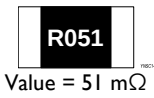
PE1206

$5\text{m}\Omega \leq R \leq 50\text{m}\Omega$

$51\text{m}\Omega \leq R \leq 910\text{m}\Omega$



Value = 10 m $\Omega$



Value = 51 m $\Omega$

4 digits

The "R" is used as a decimal point; the other 3 digits are significant.

PE2010 / PE2512

$5\text{m}\Omega \leq R \leq 100\text{m}\Omega$



Value = 10 m $\Omega$

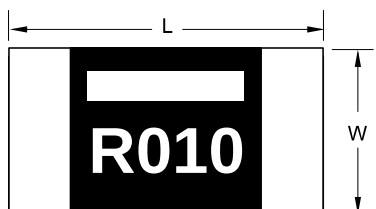
4 digits

The "R" is used as a decimal point; the other 3 digits are significant.

## Outlines

For dimensions, please refer to Table I

$5\text{m}\Omega \leq R \leq 50\text{m}\Omega$



$51\text{m}\Omega \leq R \leq 910\text{m}\Omega$

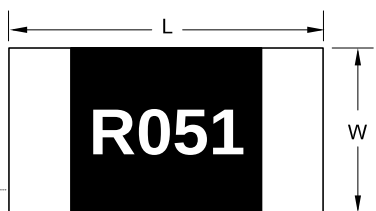
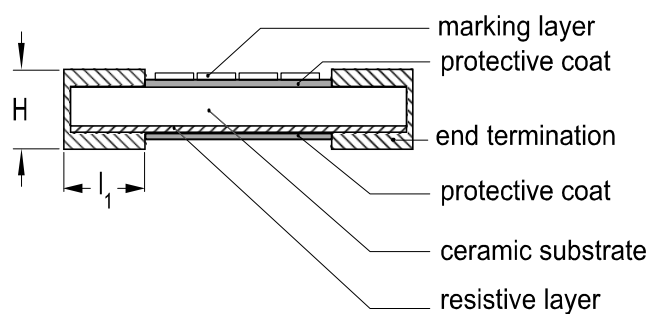


Fig. 5 Chip resistor outlines



YN5C143

**DIMENSION**

Table 1 For outlines, please refer to Fig. 4

| TYPE   | RESISTANCE RANGE                      | L (mm)          | W (mm)          | H (mm)    | l <sub>1</sub> (mm) |
|--------|---------------------------------------|-----------------|-----------------|-----------|---------------------|
| PE0201 | 50 mΩ ≤ R ≤ 200 mΩ                    | 0.60±0.03       | 0.31±0.04       | 0.27±0.04 | 0.14±0.06           |
| PE0402 | 10 mΩ ≤ R ≤ 910 mΩ                    | 1.00+0.10/-0.15 | 0.50+0.10/-0.15 | 0.35±0.15 | 0.25±0.10           |
| PE0603 | 5 mΩ, 10 mΩ, 15 mΩ, 20 mΩ ≤ R ≤ 50 mΩ | 1.60±0.20       | 0.76±0.25       | 0.35±0.25 | 0.38±0.25           |
|        | 51 mΩ ≤ R ≤ 910 mΩ                    | 1.52±0.25       | 0.76±0.25       | 0.45±0.10 | 0.38±0.25           |
| PE0805 | 5 mΩ, 10 mΩ, 15 mΩ, 20 mΩ ≤ R ≤ 50 mΩ | 2.03±0.25       | 1.27±0.25       | 0.35±0.25 | 0.38±0.25           |
|        | 51 mΩ ≤ R ≤ 910 mΩ                    | 2.03±0.25       | 1.27±0.25       | 0.55±0.10 | 0.35±0.20           |
| PE1206 | 5 mΩ                                  | 3.20±0.25       | 1.60±0.25       | 0.64±0.25 | 0.64±0.25           |
|        | 6 mΩ ≤ R ≤ 910 mΩ                     | 3.20±0.25       | 1.60±0.25       | 0.64±0.25 | 0.51±0.25           |
| PE2010 | 5 mΩ ≤ R ≤ 6 mΩ                       | 5.08±0.25       | 2.54±0.25       | 0.64±0.25 | 1.47±0.25           |
|        | 7 mΩ ≤ R ≤ 100 mΩ                     | 5.08±0.25       | 2.54±0.25       | 0.64±0.25 | 0.51±0.25           |
| PE2512 | 6 mΩ ≤ R ≤ 100 mΩ                     | 6.35±0.25       | 3.18±0.25       | 0.64±0.25 | 0.76±0.25           |

## Note:

1. For relevant physical dimensions, please refer to construction outlines.
2. Please contact with sales offices, distributors and representatives in your region before ordering.

**ELECTRICAL CHARACTERISTICS**

Table 2

| SERIES | SIZE | POWER RATING <sup>(1)</sup> |       |      |      |      | TOLERANCE                            | RESISTANCE RANGE                                         | TEMPERATURE COEFFICIENT OF RESISTANCE                                                                                                                                    |
|--------|------|-----------------------------|-------|------|------|------|--------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |      | 07                          | 7W    | 7T   | 47   | 57   |                                      |                                                          |                                                                                                                                                                          |
| PE     | 0201 | 1/20W                       | 1/10W | ---  | ---  | ---  |                                      | $50\text{ m}\Omega \leq R \leq 200\text{ m}\Omega$       | $20\text{ m}\Omega \leq R \leq 70\text{ m}\Omega \pm 350\text{ ppm}/^\circ\text{C}$<br>$70\text{ m}\Omega < R \leq 200\text{ m}\Omega \pm 100\text{ ppm}/^\circ\text{C}$ |
|        | 0402 | 1/16W                       | 1/8W  | 1/6W | 1/4W | ---  |                                      | $10\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$       | $\pm 100\text{ ppm}/^\circ\text{C}$                                                                                                                                      |
|        | 0603 | 1/10W                       | 1/5W  | 1/3W | 2/5W | 1/2W | $\pm 0.5\% (\geq 10\text{ m}\Omega)$ | $5\text{ m}\Omega, 10\text{ m}\Omega, 15\text{ m}\Omega$ | $\pm 75\text{ ppm}/^\circ\text{C}$                                                                                                                                       |
|        | 0805 | 1/8W                        | 1/4W  | 1/3W | 1/2W | ---  | $\pm 1\%$                            | $20\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$       | $\pm 100\text{ ppm}/^\circ\text{C}$                                                                                                                                      |
|        | 1206 | 1/4W                        | 1/2W  | ---  | 1W   | ---  | $\pm 5\%$                            | $5\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$        |                                                                                                                                                                          |
|        | 2010 | 1/2W                        | 1W    | ---  | ---  | ---  |                                      | $5\text{ m}\Omega \leq R \leq 100\text{ m}\Omega$        | $\pm 50\text{ ppm}/^\circ\text{C}$                                                                                                                                       |
|        | 2512 | 1W                          | 2W    | ---  | ---  | ---  |                                      | $6\text{ m}\Omega \leq R \leq 100\text{ m}\Omega$        | $\pm 75\text{ ppm}/^\circ\text{C}$<br>$\pm 100\text{ ppm}/^\circ\text{C}$                                                                                                |

Note: 1. Global part number (code 10 - 11)

2. Please contact with sales offices, distributors and representatives in your region before ordering.

**FUNCTIONAL DESCRIPTION****OPERATING TEMPERATURE RANGE**PE0201 to PE0402 Range:  $-55^\circ\text{C}$  to  $+125^\circ\text{C}$  (Fig. 6-1)PE0603 to PE2512 Range:  $-55^\circ\text{C}$  to  $+170^\circ\text{C}$  (Fig. 6-2)**POWER RATING**Standard rated power at  $70^\circ\text{C}$ :

PE0201 = 1/20W

PE0402 = 1/16W

PE0603 = 1/10W

PE0805 = 1/8W

PE1206 = 1/4W

PE2010 = 1/2W

PE2512 = 1W

For detail power value, please refer to Table 2.

**RATED VOLTAGE**

The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

$$V = \sqrt{P \times R}$$

Where

V = Continuous rated DC or AC (rms) working voltage (V)

P = Rated power (W)

R = Resistance value ( $\Omega$ )

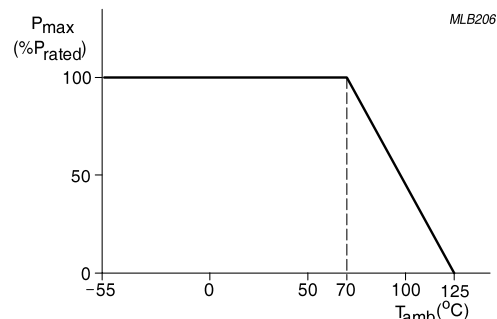


Fig. 6-1 Maximum dissipation ( $P_{\max}$ ) in percentage of rated power as a function of the operating ambient temperature ( $T_{\text{amb}}$ )

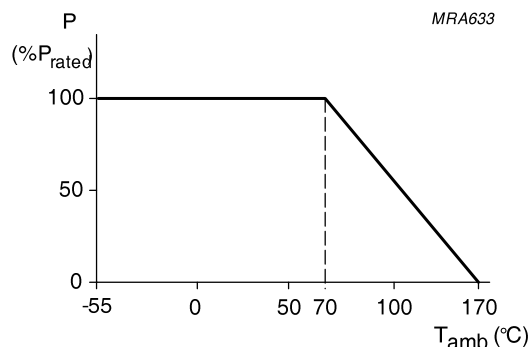


Fig. 6-2 Maximum dissipation ( $P_{\max}$ ) in percentage of rated power as a function of the operating ambient temperature ( $T_{\text{amb}}$ )

**PACKING STYLE AND PACKAGING QUANTITY**

Table 3 Packing style and packaging quantity

| PACKING STYLE            | REEL DIMENSION | PE0201 | PE0402 | PE0603 | PE0805 | PE1206 | PE2010 | PE2512 |
|--------------------------|----------------|--------|--------|--------|--------|--------|--------|--------|
| Paper taping reel (R)    | 7" (178 mm)    | 10,000 | 10,000 | 5,000  | 5,000  | 4,000  | ---    | ---    |
| Embossed taping reel (K) | 7" (178 mm)    | ---    | ---    | ---    | ---    | ---    | 4,000  | 4,000  |

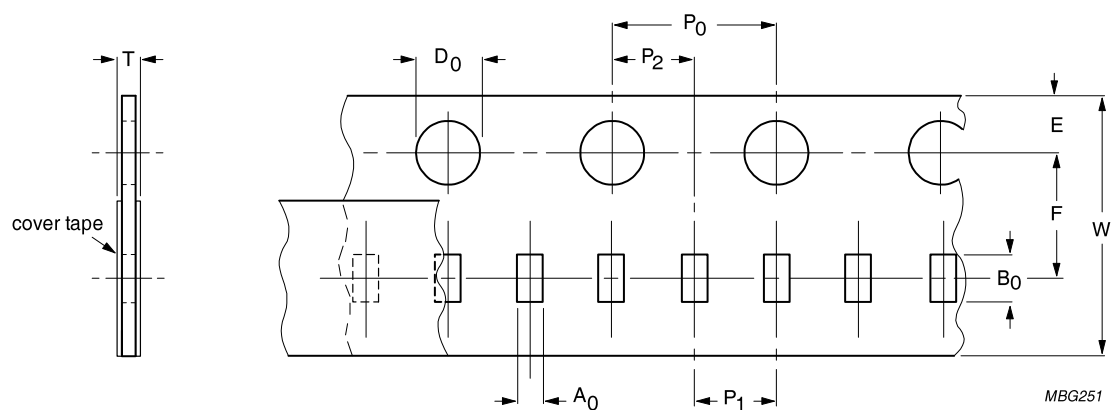
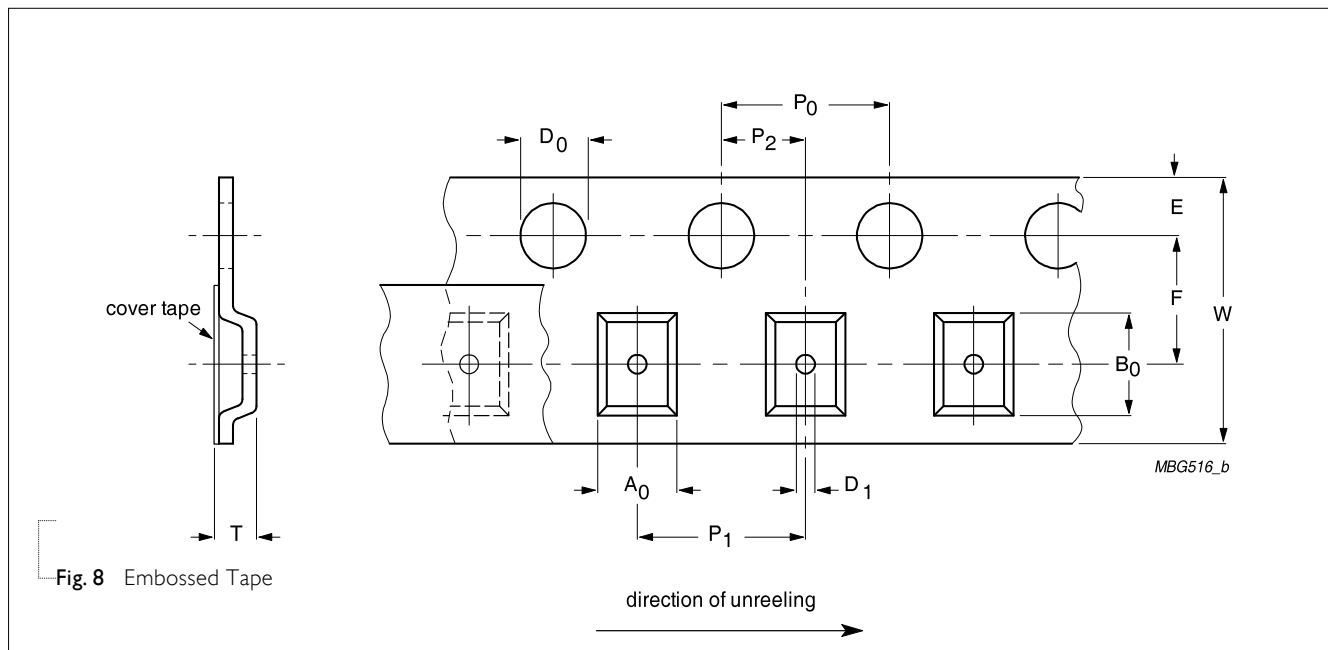
**PAPER TAPE**

Fig. 7 Paper Tape

Table 4 Dimensions of paper tape for relevant chip resistors size

| SIZE   | SYMBOL         |                |           |           |           |                |                |                |                 |           | Unit: mm |
|--------|----------------|----------------|-----------|-----------|-----------|----------------|----------------|----------------|-----------------|-----------|----------|
|        | A <sub>0</sub> | B <sub>0</sub> | W         | E         | F         | P <sub>0</sub> | P <sub>1</sub> | P <sub>2</sub> | ØD <sub>0</sub> | T         |          |
| PE0201 | 0.35±0.10      | 1.65±0.10      | 8.00±0.30 | 1.75±0.10 | 3.50±0.10 | 4.00±0.10      | 2.00±0.05      | 2.00±0.05      | 1.50±0.10       | 0.53±0.10 |          |
| PE0402 | 0.65±0.10      | 1.15±0.10      | 8.00±0.30 | 1.75±0.10 | 3.50±0.10 | 4.00±0.10      | 2.00±0.05      | 2.00±0.05      | 1.50±0.10       | 0.53±0.10 |          |
| PE0603 | 1.20±0.15      | 1.90±0.15      | 8.00±0.30 | 1.75±0.10 | 3.50±0.10 | 4.00±0.10      | 4.00±0.10      | 2.00±0.10      | 1.50±0.10       | 0.55±0.15 |          |
| PE0805 | 1.60±0.15      | 2.30±0.15      | 8.00±0.30 | 1.75±0.10 | 3.50±0.10 | 4.00±0.10      | 4.00±0.10      | 2.00±0.10      | 1.50±0.10       | 0.85±0.15 |          |
| PE1206 | 1.90±0.10      | 3.50±0.10      | 8.00±0.30 | 1.75±0.10 | 3.50±0.10 | 4.00±0.10      | 4.00±0.10      | 2.00±0.10      | 1.50±0.10       | 1.50±0.10 |          |

**EMBOSSED TAPE**

**Table 5** Dimensions of embossed tape for relevant chip resistors size

| SIZE   | SYMBOL         |                |            |           |           |                |                |                |                 |                 | Unit: mm  |
|--------|----------------|----------------|------------|-----------|-----------|----------------|----------------|----------------|-----------------|-----------------|-----------|
|        | A <sub>0</sub> | B <sub>0</sub> | W          | E         | F         | P <sub>0</sub> | P <sub>1</sub> | P <sub>2</sub> | ØD <sub>0</sub> | ØD <sub>1</sub> | T         |
| PE2010 | 3.00±0.15      | 5.60±0.15      | 12.10±0.30 | 1.75±0.10 | 5.50±0.10 | 4.00±0.10      | 4.00±0.10      | 2.00±0.10      | 1.50±0.10       | 1.50±0.10       | 0.80±0.15 |
| PE2512 | 3.40±0.15      | 6.70±0.15      | 12.10±0.30 | 1.75±0.10 | 5.50±0.10 | 4.00±0.10      | 4.00±0.10      | 2.00±0.10      | 1.50±0.10       | 1.50±0.10       | 0.80±0.15 |

## REEL SPECIFICATION

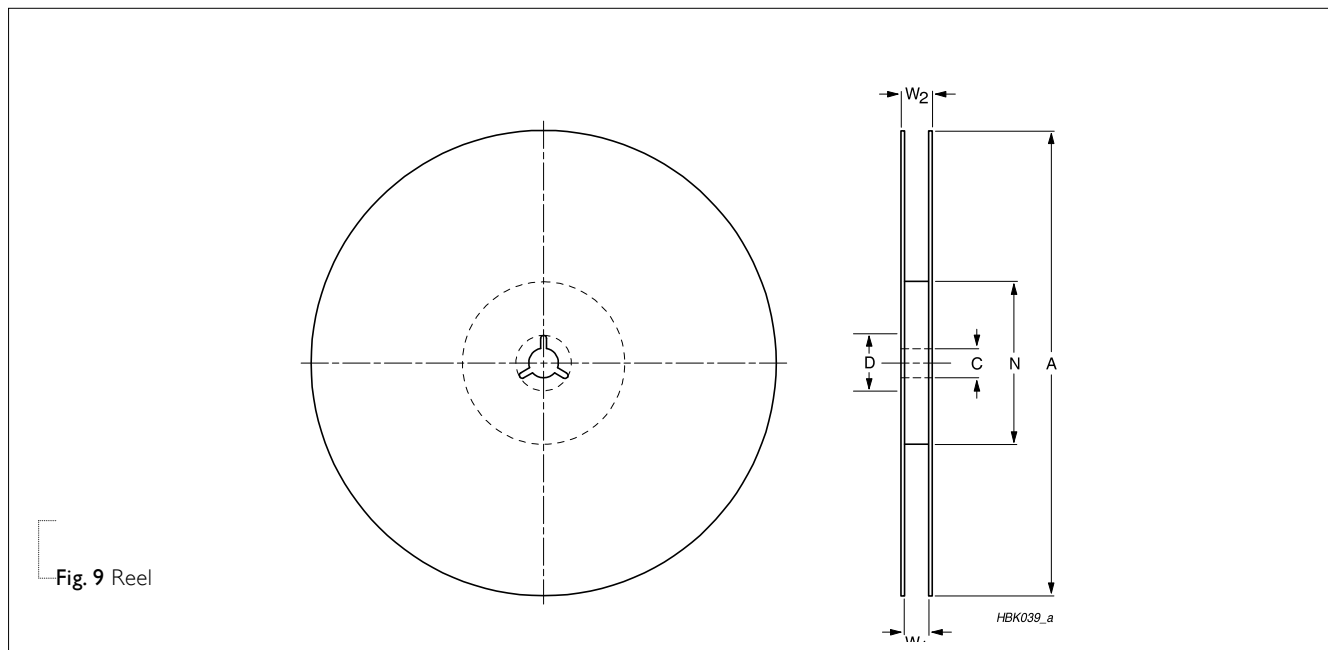
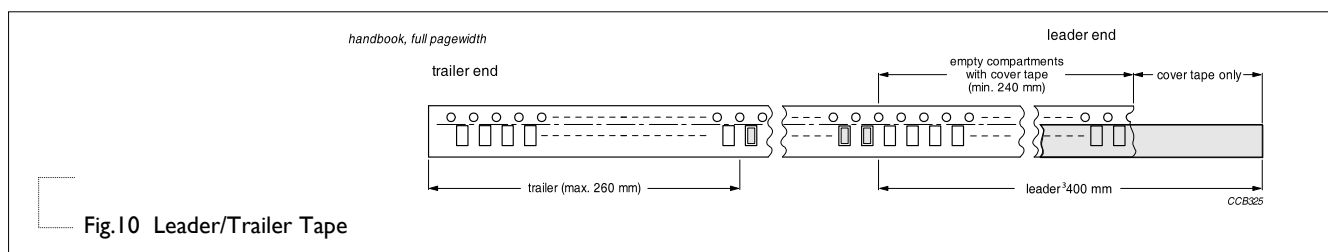


**Table 6** Dimensions of reel specification for relevant chip resistors size

| SIZE   | QUANTITY<br>PER REEL | REEL SIZE         |                    |                    | SYMBOL     |           |          |          | Unit: mm       |                    |
|--------|----------------------|-------------------|--------------------|--------------------|------------|-----------|----------|----------|----------------|--------------------|
|        |                      | 8 mm<br>TAPE WIDE | 12 mm<br>TAPE WIDE | 24 mm<br>TAPE WIDE | A          | N         | C        | D        | W <sub>1</sub> | W <sub>2</sub> MAX |
| PE0201 | 10,000               | 7"<br>(Ø178 mm)   | ---                | ---                | 180.0+0/-3 | 60.0+1/-0 | 13.0±0.2 | 21.0±0.8 | 9.0±0.30       | 12.4               |
| PE0402 | 10,000               | 7"<br>(Ø178 mm)   | ---                | ---                | 180.0+0/-3 | 60.0+1/-0 | 13.0±0.2 | 21.0±0.8 | 9.0±0.30       | 12.4               |
| PE0603 | 5000                 | 7"<br>(Ø178 mm)   | --                 | --                 | 180.0+0/-3 | 60.0+1/-0 | 13.0±0.2 | 21.0±0.8 | 8.4 +1/-0      | 12.4               |
| PE0805 | 5000                 | 7"<br>(Ø178 mm)   | --                 | --                 | 180.0+0/-3 | 60.0+1/-0 | 13.0±0.2 | 21.0±0.8 | 8.4 +1/-0      | 12.4               |
| PE1206 | 4000                 | 7"<br>(Ø178 mm)   | --                 | --                 | 180.0+0/-3 | 60.0+1/-0 | 13.0±0.2 | 21.0±0.8 | 8.4 +1/-0      | 12.4               |
| PE2010 | 4000                 | --                | 7"<br>(Ø178 mm)    | --                 | 180.0+0/-3 | 60.0+1/-0 | 13.0±0.2 | 21.0±0.8 | 12.3 +1/-0     | 18.4               |
| PE2512 | 4000                 | --                | 7"<br>(Ø178 mm)    | --                 | 180.0+0/-3 | 60.0+1/-0 | 13.0±0.2 | 21.0±0.8 | 12.3 +1/-0     | 18.4               |

## LEADER/TRAILER TAPE SPECIFICATION



## FOOTPRINT AND SOLDERING PROFILES

For recommended soldering profiles, please refer to data sheet “Chip resistors mounting”.

### FOOTPRINT

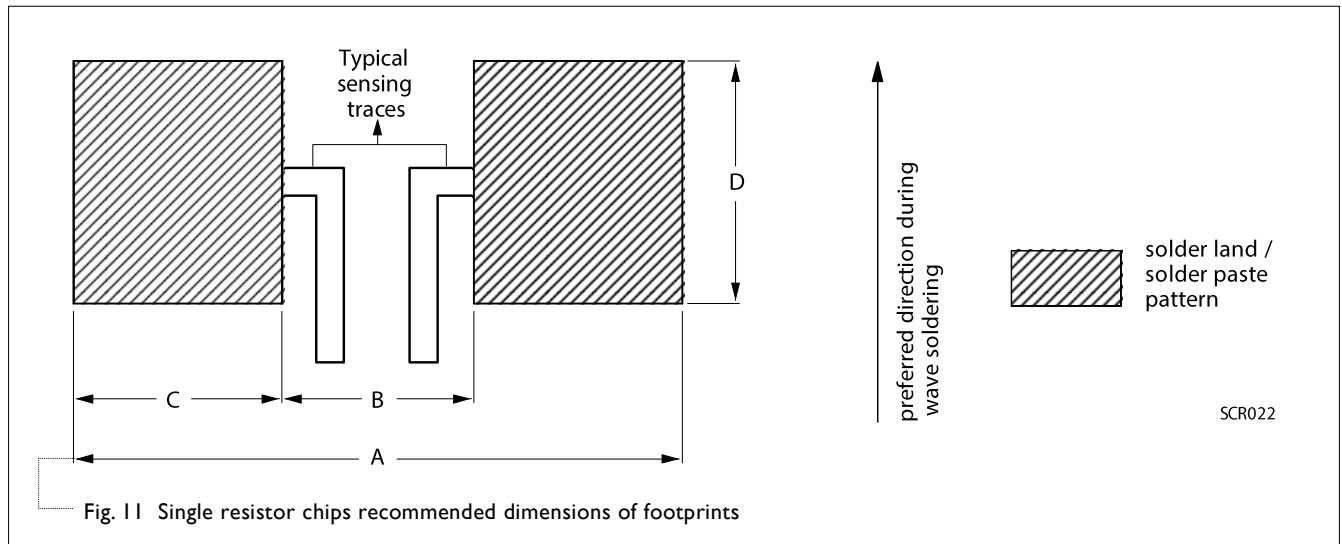


Table 7 Footprint dimensions

| SIZE   | RESISTANCE RANGE                                                                                           | Unit: mm |      |      |      |
|--------|------------------------------------------------------------------------------------------------------------|----------|------|------|------|
|        |                                                                                                            | A        | B    | C    | D    |
| PE0201 | $50\text{ m}\Omega \leq R \leq 200\text{ m}\Omega$                                                         | 1.00     | 0.30 | 0.35 | 0.40 |
| PE0402 | $10\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$                                                         | 1.45     | 0.35 | 0.55 | 0.55 |
| PE0603 | $5\text{ m}\Omega, 10\text{ m}\Omega, 15\text{ m}\Omega, 20\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$ | 2.52     | 0.50 | 1.01 | 1.01 |
| PE0805 | $5\text{ m}\Omega, 10\text{ m}\Omega, 15\text{ m}\Omega, 20\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$ | 2.54     | 0.50 | 1.02 | 1.27 |
| PE1206 | $5\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$                                                          | 3.90     | 0.76 | 1.57 | 1.78 |
| PE2010 | $5\text{ m}\Omega \leq R \leq 6\text{ m}\Omega$                                                            | 6.12     | 1.40 | 2.36 | 3.05 |
|        | $7\text{ m}\Omega \leq R \leq 100\text{ m}\Omega$                                                          | 6.10     | 3.30 | 1.40 | 3.05 |
| PE2512 | $6\text{ m}\Omega$                                                                                         | 7.40     | 3.18 | 2.11 | 3.68 |
|        | $7\text{ m}\Omega \leq R \leq 100\text{ m}\Omega$                                                          | 7.36     | 4.06 | 1.65 | 3.68 |

**TESTS AND REQUIREMENTS**

Table 8 Test condition, procedure and requirements

| TEST                                                                              | TEST METHOD                                   | PROCEDURE                                                                                                                                                                                                                                                                                        | REQUIREMENTS                        |
|-----------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Life/<br>Operational Life/<br>Endurance                                           | MIL-STD-202G-method 108<br>IEC 60115-1 4.25.1 | 1,000 hours at 70±2 °C applied RCWV<br>1.5 hours on, 0.5 hour off, still air required                                                                                                                                                                                                            | ±(1%+0.0005 Ω)                      |
| High<br>Temperature<br>Exposure/<br>Endurance at<br>Upper Category<br>Temperature | MIL-STD-202G-method 108<br>IEC 60115-1 4.25.3 | 1,000 hours at maximum operating temperature<br>depending on specification, unpowered<br>No direct impingement of forced air to the parts<br>Tolerances:<br>0201/0402 155±3°C<br>0603 and above 170±3°C                                                                                          | ±(1%+0.0005 Ω)                      |
| Moisture<br>Resistance                                                            | MIL-STD-202G-method 106                       | Each temperature / humidity cycle is defined at 8<br>hours (method 106F), 3 cycles / 24 hours for 10d<br>with 25 °C / 65 °C 95% R.H, without steps 7a &<br>7b, unpowered<br>Parts mounted on test-boards, without<br>condensation on parts<br>Measurement at 24±2 hours after<br>test conclusion | ±(0.5%+0.0005 Ω)                    |
| Thermal Shock                                                                     | MIL-STD-202G-method 107                       | -55/+125 °C<br>Note: Number of cycles required is 300.<br>Devices mounted<br>Maximum transfer time is 20 seconds.<br>Dwell time is 15 minutes. Air – Air                                                                                                                                         | ±(1%+0.0005 Ω)                      |
| Short Time<br>Overload                                                            | IEC60115-1 4.13                               | 5 times of rated power for 5 seconds at room<br>temperature                                                                                                                                                                                                                                      | ±(1%+0.0005 Ω)<br>No visible damage |
| Board Flex/<br>Bending                                                            | IEC60115-1 4.33                               | Device mounted on PCB test board as described,<br>only 1 board bending required<br>Bending for<br>0201: 3mm<br>0402 and above: 2mm<br>Holding time: minimum 60 seconds                                                                                                                           | ±(1%+0.0005 Ω)<br>No visible damage |
| Biased Humidity                                                                   | MIL-STD-202<br>Method 103                     | 1,000 hours at 85°C/85%R.H. 10% of operating<br>power, no condensation on the devices, circulating<br>air.                                                                                                                                                                                       | ± (1.0 % + 0.0005Ω)                 |

| TEST                              | TEST METHOD                                  | PROCEDURE                                                                                                                                                                                                                            | REQUIREMENTS                                    |
|-----------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Solderability                     |                                              |                                                                                                                                                                                                                                      |                                                 |
| - Wetting                         | IPC/JEDEC<br>J-STD-002B test B               | Electrical Test not required<br>Magnification 50X<br>SMD conditions:<br>1 <sup>st</sup> step: method B, aging 4 hours at 155 °C<br>dry heat<br>2 <sup>nd</sup> step: leadfree solder bath at 245±3 °C<br>Dipping time: 3±0.5 seconds | Well tinned (≥95% covered)<br>No visible damage |
| - Leaching                        | IPC/JEDEC<br>J-STD-002B test D               | Leadfree solder, 260 °C,<br>30 seconds immersion time                                                                                                                                                                                | No visible damage                               |
| - Resistance to<br>Soldering Heat | MIL-STD-202G-method 210F<br>IEC 60115-1 4.18 | Condition B, no pre-heat of samples<br>Leadfree solder, 260 °C,<br>10 seconds immersion time<br>Procedure 2 for SMD: devices fluxed and<br>cleaned with isopropanol                                                                  | ±(0.5%+0.0005 Ω)<br>No visible damage           |

**REVISION HISTORY**

| REVISION  | DATE          | CHANGE NOTIFICATION | DESCRIPTION                                                                                                          |
|-----------|---------------|---------------------|----------------------------------------------------------------------------------------------------------------------|
| Version 5 | Nov 23,2016   | -                   | - Extend resistor value for 0.5%                                                                                     |
| Version 4 | Dec. 21, 2015 | -                   | - Update resistance value                                                                                            |
| Version 3 | Aug. 06, 2015 | -                   | - Update 0603 to 1206 TCR                                                                                            |
| Version 2 | Apr. 20, 2015 | -                   | - Extend resistor value                                                                                              |
| Version 1 | Mar. 04, 2015 | -                   | - Update TCR and operating temperature                                                                               |
| Version 0 | Feb. 10, 2015 | -                   | - New datasheet for current sensor - low TCR PE series sizes of 0201/0402/0603/0805/1206/2010/2512, 0.5%, 1%, and 5% |

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