

# 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 = ±0.5% (≥10mΩ)    F = ±1%    J = ±5%

**(3) PACKAGING TYPE**

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

**(4) TEMPERATURE COEFFICIENT OF RESISTANCE**

E = ±50 ppm/°C  
 M = ±75 ppm/°C  
 F = ±100 ppm/°C  
 J = ±350 ppm/°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 mΩ to 910 mΩ  
 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. <sup>(Note)</sup>

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

**ORDERING EXAMPLE**

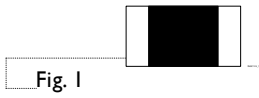
The ordering code of a PE2512 1W chip resistor, value 0.006 Ω with ±1% tolerance, supplied in 7-inch tape reel is:  
**PE2512FKM070R006L**

**NOTE**

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

**MARKING**

PE0201 / PE0402

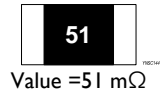
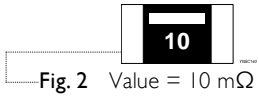


No marking

PE0603

$5m\Omega \leq R \leq 50m\Omega$

$51m\Omega \leq R \leq 910m\Omega$

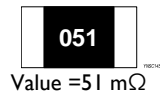
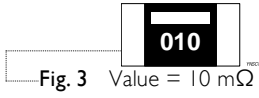


2 digits

PE0805

$5m\Omega \leq R \leq 50m\Omega$

$51m\Omega \leq R \leq 910m\Omega$

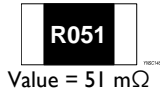
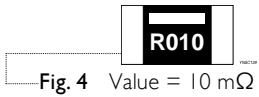


3 digits

PE1206

$5m\Omega \leq R \leq 50m\Omega$

$51m\Omega \leq R \leq 910m\Omega$

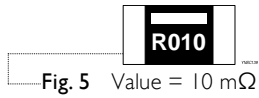


4 digits

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

PE2010 / PE2512

$5m\Omega \leq R \leq 100m\Omega$



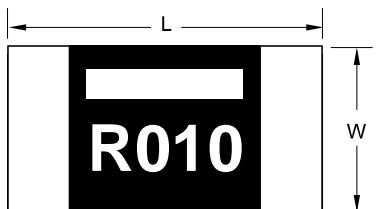
4 digits

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

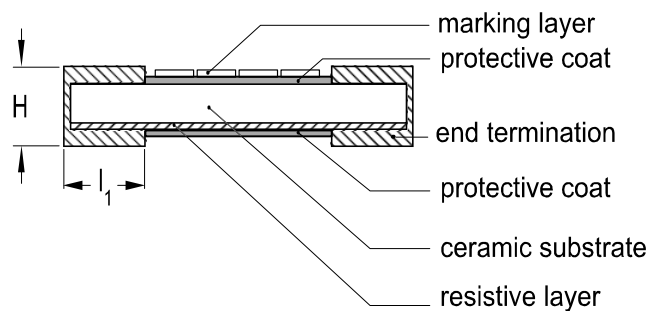
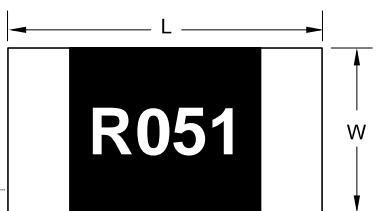
**Outlines**

For dimensions, please refer to Table I

$5m\Omega \leq R \leq 50m\Omega$



$51m\Omega \leq R \leq 910m\Omega$



YNSC14E

Fig. 5 Chip resistor outlines

**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, 15mΩ, 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, 15mΩ, 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 (1) |       |      |      |      | TOLERANCE  | RESISTANCE RANGE   | TEMPERATURE COEFFICIENT OF RESISTANCE                                     |
|--------|------|------------------|-------|------|------|------|--|--|---|
|        |      | 07               | 7W    | 7T   | 47   | 57   |  |  |   |
|        | 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 | $\pm 0.5\% (\geq 10\text{ m}\Omega)$               | $5\text{ m}\Omega, 10\text{ m}\Omega, 15\text{ m}\Omega$   |   |
| PE     | 0805 | 1/8W             | 1/4W  | 1/3W | 1/2W | ---  | $\pm 1\%$  | $20\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$   | $\pm 75\text{ ppm}/^\circ\text{C}$  |
|        | 1206 | 1/4W             | 1/2W  | ---  | 1W   | ---  | $\pm 5\%$  | $5\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$  | $\pm 100\text{ ppm}/^\circ\text{C}$                                       |
|        | 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:

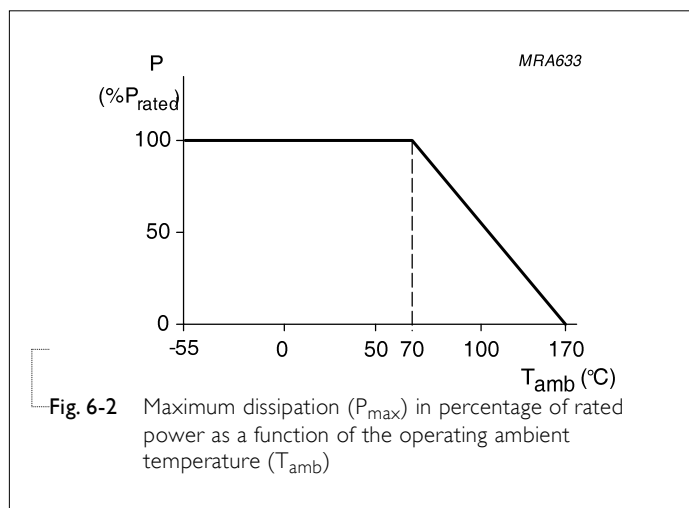
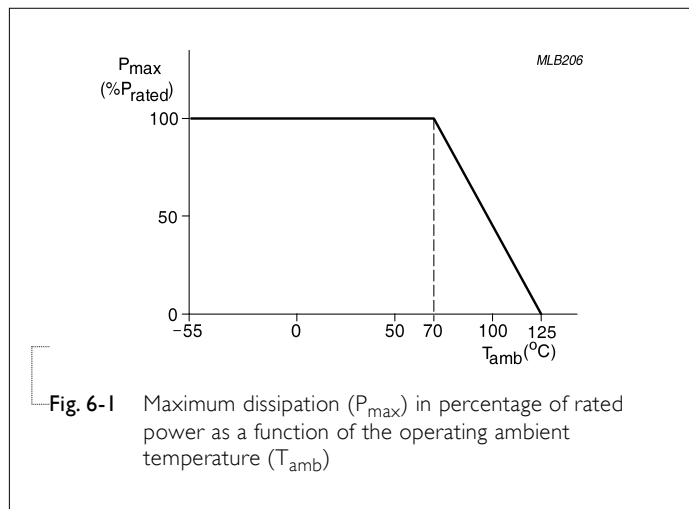
$$V = \sqrt{P \times R}$$

Where

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

P = Rated power (W)

R = Resistance value ( $\Omega$ )



**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**

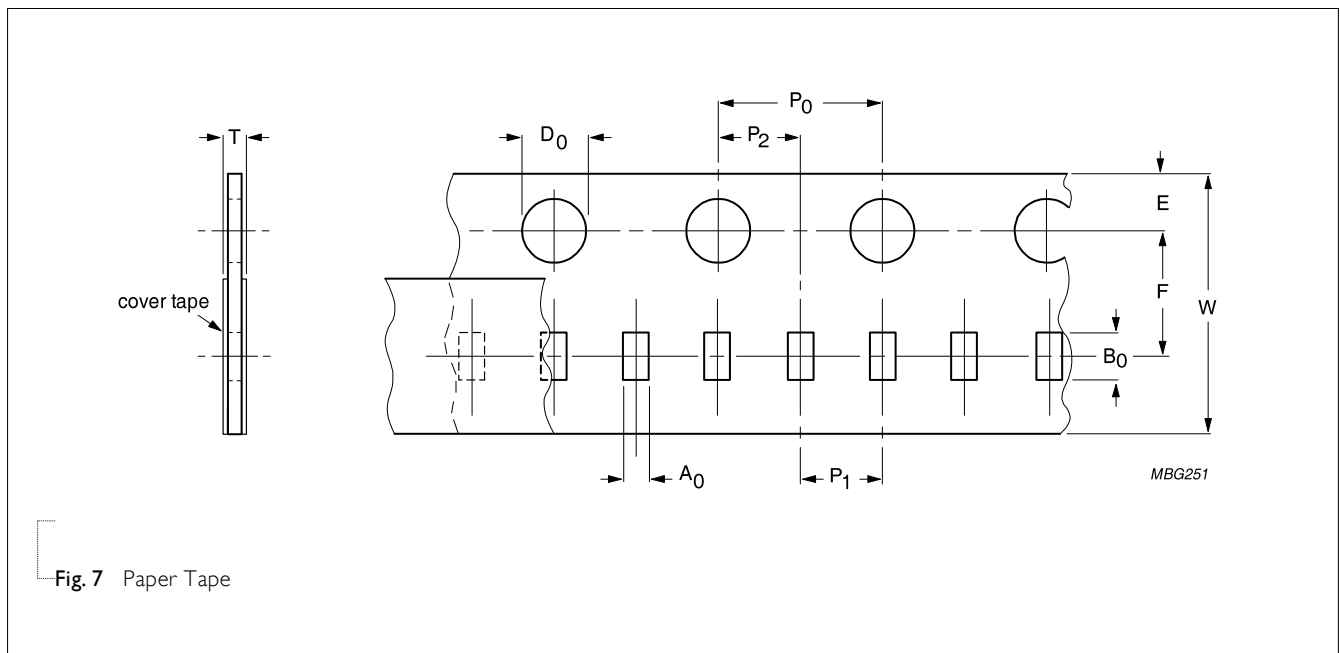


Fig. 7 Paper Tape

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**

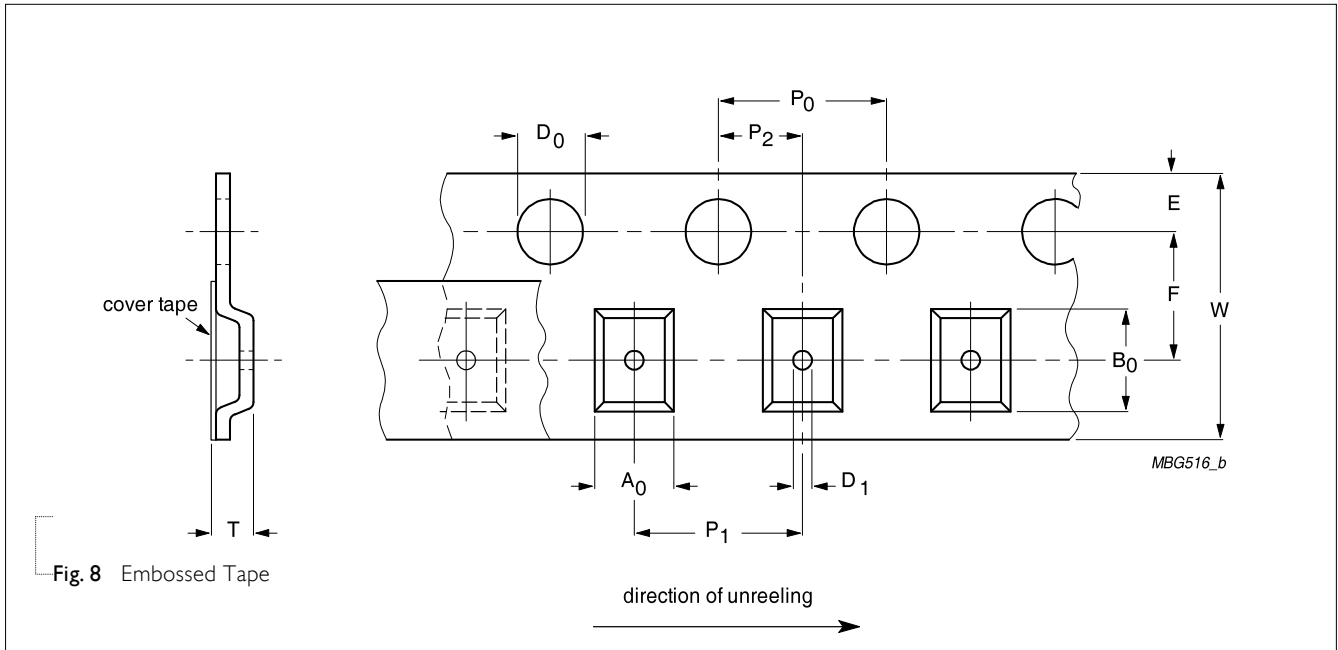


Fig. 8 Embossed Tape

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> |           |
| 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**

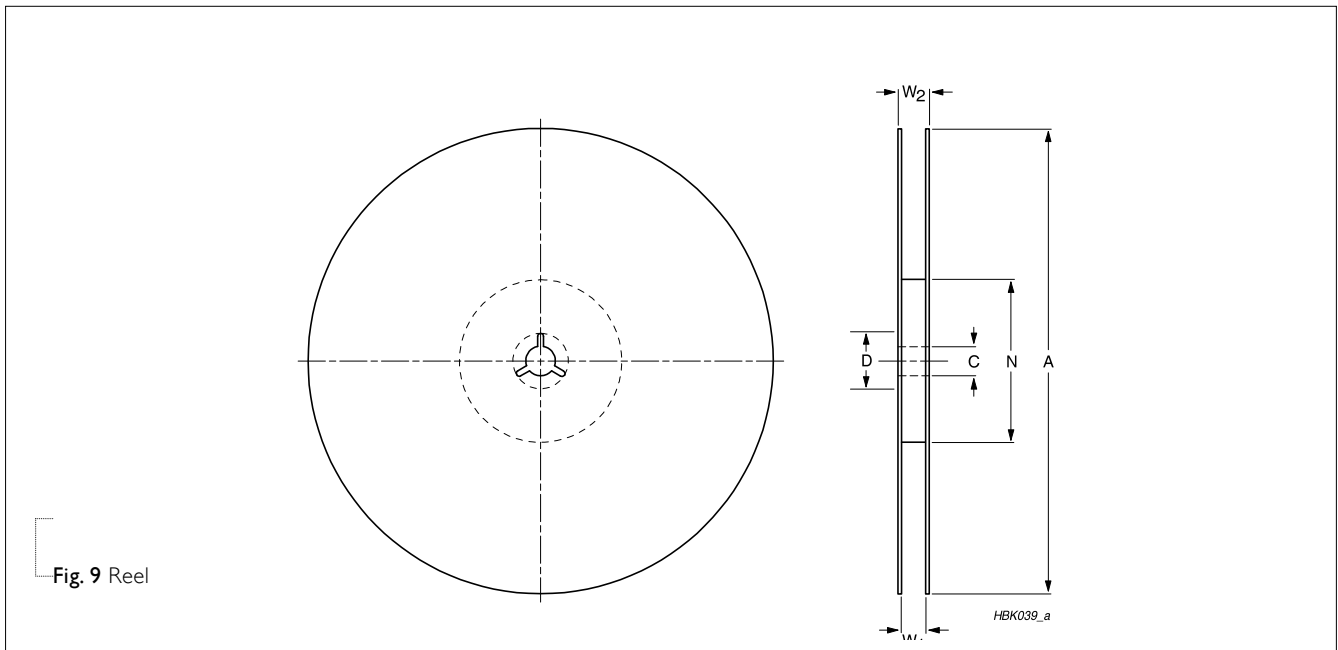


Fig. 9 Reel

Table 6 Dimensions of reel specification for relevant chip resistors size

| SIZE   | QUANTITY PER REEL | REEL SIZE                  |                            |                 | SYMBOL     |           | Unit: mm |          |            |            |  |
|--------|-------------------|----------------------------|----------------------------|-----------------|------------|-----------|----------|----------|------------|------------|--|
|        |                   | 8 mm TAPE WIDE             | 12 mm TAPE WIDE            | 24 mm TAPE WIDE | A          | N         | C        | D        | $W_1$      | $W_2$ MAX. |  |
| PE0201 | 10,000            | 7" ( $\varnothing 178$ 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" ( $\varnothing 178$ 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" ( $\varnothing 178$ 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" ( $\varnothing 178$ 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" ( $\varnothing 178$ 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" ( $\varnothing 178$ 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" ( $\varnothing 178$ 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**

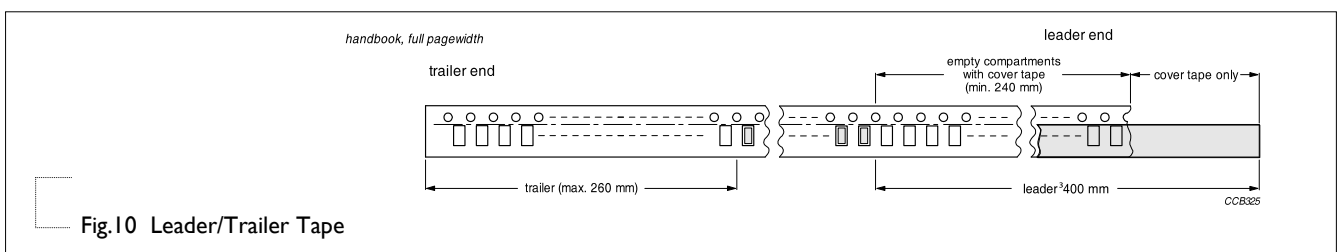


Fig.10 Leader/Trailer Tape



**FOOTPRINT AND SOLDERING PROFILES**

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

**FOOTPRINT**

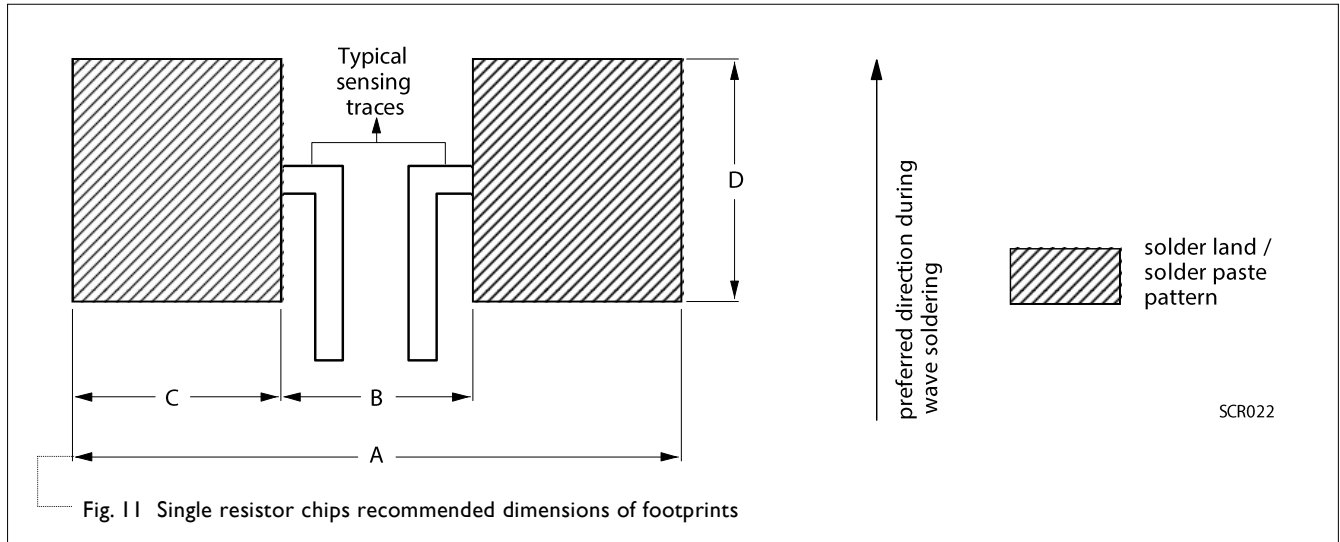


Table 7 Footprint dimensions

| SIZE   | RESISTANCE RANGE                      | Unit: mm |      |      |      |
|--------|---------------------------------------|----------|------|------|------|
|        |                                       | A        | B    | C    | D    |
| PE0201 | 50 mΩ ≤ R ≤ 200 mΩ                    | 1.00     | 0.30 | 0.35 | 0.40 |
| PE0402 | 10 mΩ ≤ R ≤ 910 mΩ                    | 1.45     | 0.35 | 0.55 | 0.55 |
| PE0603 | 5 mΩ, 10 mΩ, 15 mΩ, 20mΩ ≤ R ≤ 910 mΩ | 2.52     | 0.50 | 1.01 | 1.01 |
| PE0805 | 5 mΩ, 10 mΩ, 15 mΩ, 20mΩ ≤ R ≤ 910 mΩ | 2.54     | 0.50 | 1.02 | 1.27 |
| PE1206 | 5 mΩ ≤ R ≤ 910 mΩ                     | 3.90     | 0.76 | 1.57 | 1.78 |
| PE2010 | 5 mΩ ≤ R ≤ 6 mΩ                       | 6.12     | 1.40 | 2.36 | 3.05 |
|        | 7 mΩ ≤ R ≤ 100 mΩ                     | 6.10     | 3.30 | 1.40 | 3.05 |
| PE2512 | 6 mΩ                                  | 7.40     | 3.18 | 2.11 | 3.68 |
|        | 7 mΩ ≤ R ≤ 100 mΩ                     | 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<br>- Wetting        | IPC/JEDEC                      | Electrical Test not required  | Well tinned (≥95% covered) |
|                                   | J-STD-002B test B              | Magnification 50X<br>SMD conditions:<br>1 <sup>st</sup> step: method B, aging 4 hours at 155 °C dry heat<br>2 <sup>nd</sup> step: leadfree solder bath at 245±3 °C<br>Dipping time: 3±0.5 seconds | 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       | Condition B, no pre-heat of samples   | ±(0.5%+0.0005 Ω)           |
|                                   | IEC 60115-1 4.18               | Leadfree solder, 260 °C,<br>10 seconds immersion time<br>Procedure 2 for SMD: devices fluxed and cleaned with isopropanol   | 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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## Yageo:

[PE2512FKE7W0R025L](#) [PE2512FKE7W0R02L](#) [PE2512FKE7W0R033L](#) [PE2512FKE7W0R03L](#)  
[PE2512FKE7W0R04L](#) [PE2512FKE7W0R06L](#) [PE0805FRF470R01L](#) [PE2512FKE070R006L](#) [PE2512FKE070R007L](#)  
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[PE1206FRF7W0R033L](#) [PE1206FRF7W0R03L](#) [PE1206FRF7W0R04L](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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