

DATA SHEET

CURRENT SENSOR - LOW TCR

AUTOMOTIVE GRADE

PE_L series

5%, 1%, 0.5%, 0.1%

sizes

0100/ 0201/ 0402/ 0603/ 0805/ 1206/ 2010/ 2512/ 2817/ 4527

RoHS compliant & Halogen free



YAGEO

Product Specification – September 17, 2020 V.10



SCOPE

This specification describes PE series current sensor - low TCR with lead-free terminations made by metal film 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

0100/ 0201/ 0402/ 0603/ 0805/ 1206/ 2010/ 2512/ 2817/ 4527

(2) TOLERANCE

B = $\pm 0.1\%$

D = $\pm 0.5\%$

F = $\pm 1\%$

J = $\pm 5\%$

(3) PACKAGING TYPE

R = Paper/ PE taping reel

K = Embossed taping reel

(4) TEMPERATURE COEFFICIENT OF RESISTANCE

E = ± 50 ppm/ $^{\circ}\text{C}$

M = ± 75 ppm/ $^{\circ}\text{C}$

F = ± 100 ppm/ $^{\circ}\text{C}$

G = ± 200 ppm/ $^{\circ}\text{C}$

I = ± 300 ppm/ $^{\circ}\text{C}$

J = ± 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 Ω to 1 Ω

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)

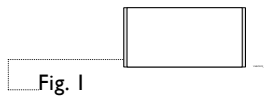
Resistance rule of global part number	
Resistance code rule	Example
	0R001 = 1 m Ω
0RXXX	0R1 = 100 m Ω
(1 to 910 m Ω)	0R91 = 910 m Ω

ORDERING EXAMPLE

The ordering code of a PE2512 1W chip resistor, value 0.1 Ω with $\pm 1\%$ tolerance, supplied in 7-inch tape reel is: PE2512FKM070R1L

NOTE

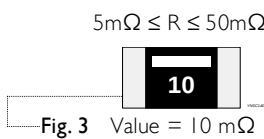
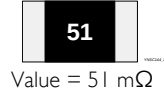
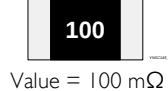
- All our RSMD products are RoHS compliant. "LFP" of the internal 2D reel label mentions "Lead-Free Process"

MARKING**PE0100**

No marking

PE0201 / PE0402

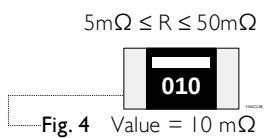
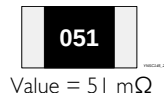
No marking

PE0603 $5\text{m}\Omega \leq R \leq 50\text{m}\Omega$ Value = 10 m Ω $51\text{m}\Omega \leq R \leq 99\text{m}\Omega$  $100\text{m}\Omega \leq R \leq 910\text{m}\Omega$ 

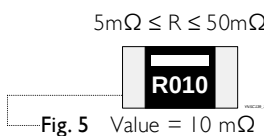
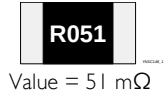
2 digits

resistance range: $5\text{m}\Omega \leq R \leq 99\text{m}\Omega$

3 digits

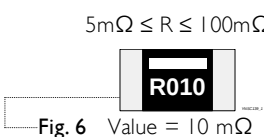
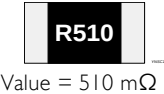
resistance range: $100\text{m}\Omega \leq R \leq 910\text{m}\Omega$ **PE0805** $5\text{m}\Omega \leq R \leq 50\text{m}\Omega$ Value = 10 m Ω $51\text{m}\Omega \leq R \leq 910\text{m}\Omega$ 

3 digits

PE1206 $5\text{m}\Omega \leq R \leq 50\text{m}\Omega$ Value = 10 m Ω $51\text{m}\Omega \leq R \leq 910\text{m}\Omega$ 

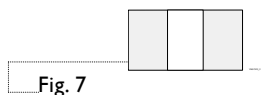
4 digits

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

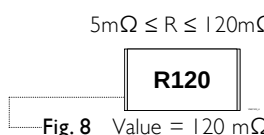
PE2010 / PE2512 (1W&2W) $5\text{m}\Omega \leq R \leq 100\text{m}\Omega$ Value = 10 m Ω $100\text{m}\Omega < R \leq 910\text{m}\Omega$ 

4 digits

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

PE2512 (3W&5W) / PE2817

No marking

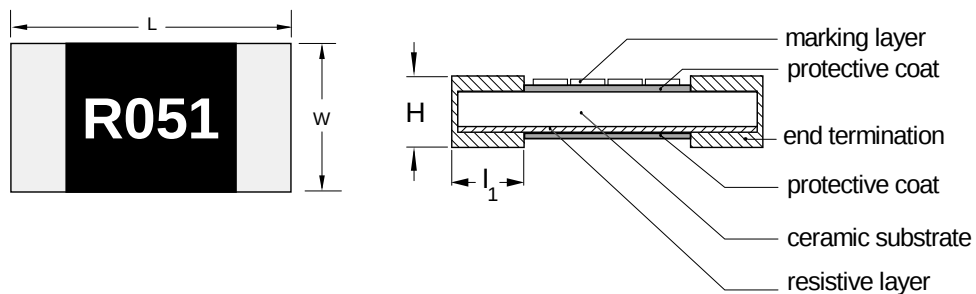
PE4527 $5\text{m}\Omega \leq R \leq 120\text{m}\Omega$ Value = 120 m Ω

4 digits

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

Outlines

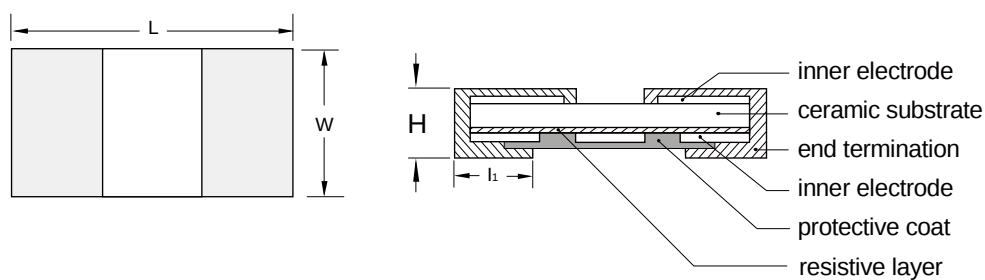
For dimensions, please refer to Table I



YNSC143_1

Fig. 9 Chip resistor outlines for PE0100~PE4527

For dimensions, please refer to Table I



YNSC143_2

Fig. 10 Chip resistor outlines for PE2512 (3W&5W) / PE2817

DIMENSION

Table 1 For outlines, please refer to Fig. 9 & Fig. 10

TYPE	RESISTANCE RANGE	L (mm)	W (mm)	H (mm)	l ₁ (mm)
PE0100	100 mΩ ≤ R ≤ 1 Ω	0.40±0.03	0.20±0.03	0.14±0.03	0.10±0.03
PE0201	50 mΩ ≤ R ≤ 910 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 ≤ 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 ≤ R ≤ 6 mΩ	2.03±0.25	1.27±0.25	0.35±0.25	0.73±0.25
	7 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
	5 mΩ	3.20±0.25	1.60±0.25	0.64±0.25	0.64±0.25
PE1206	6 mΩ ≤ R ≤ 910 mΩ	3.20±0.25	1.60±0.25	0.64±0.25	0.51±0.25
	5 mΩ ≤ R ≤ 6 mΩ	5.08±0.25	2.54±0.25	0.64±0.25	1.47±0.25
PE2010	7 mΩ ≤ R ≤ 910 mΩ	5.08±0.25	2.54±0.25	0.64±0.25	0.51±0.25
	6 mΩ ≤ R ≤ 910 mΩ	6.35±0.25	3.18±0.25	0.64±0.25	0.76±0.25
PE2512 1W&2W	20 mΩ ≤ R ≤ 910 mΩ	6.35±0.25	3.15±0.25	0.64±0.25	0.90±0.25
PE2817	20 mΩ ≤ R ≤ 910 mΩ	7.10±0.25	4.20±0.25	0.64±0.25	1.00±0.25
PE4527	5 mΩ	11.75±0.45	7.20±0.45	0.65±0.20	3.00±0.45
	6 mΩ ≤ R ≤ 120 mΩ	11.75±0.45	7.20±0.45	0.65±0.20	2.70±0.45

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 @ 70°C ⁽¹⁾					TOLERANCE	RESISTANCE RANGE	TEMPERATURE COEFFICIENT OF RESISTANCE
		07	7W	7T	47	57			
PE	0100	1/32W	1/16W	---	---	---	±1%, ±5%	100 mΩ ≤ R ≤ 299 mΩ	±300 ppm/°C
								300 mΩ ≤ R ≤ 1Ω	±200 ppm/°C
	0201	1/20W	1/10W	---	---	---		50 mΩ ≤ R ≤ 70 mΩ	±350 ppm/°C
								70 mΩ < R ≤ 910 mΩ	±100 ppm/°C
	0402	1/16W	1/8W	1/6W	1/4W	---	±0.1% (only for 0805, >50 mΩ)	10 mΩ ≤ R ≤ 910 mΩ	±100 ppm/°C
	0603	1/10W	1/5W	1/3W	2/5W	1/2W		5 mΩ ≤ R ≤ 910 mΩ	±75 ppm/°C, ±100 ppm/°C
	0805	1/8W	1/4W	1/3W	1/2W	---	±0.5% (≥10 mΩ)	5 mΩ ≤ R ≤ 19 mΩ	±75 ppm/°C, ±100 ppm/°C
	1206	1/4W	1/2W	---	1W	---		20 mΩ ≤ R ≤ 910 mΩ	±50 ppm/°C, ±75 ppm/°C, ±100 ppm/°C
	2010	1/2W	1W	---	---	---	±0.5%	5 mΩ ≤ R ≤ 910 mΩ	±50 ppm/°C, ±75 ppm/°C, ±100 ppm/°C
	2512	1W	2W	---	---	---		6 mΩ ≤ R ≤ 910 mΩ	
	2817	7W	---	---	---	---	±0.5%	20 mΩ ≤ R ≤ 910 mΩ	±100 ppm/°C
								20 mΩ ≤ R ≤ 910 mΩ	
	4527	2W	3W	---	---	---	±1%, ±5%	5 mΩ ≤ R ≤ 120 mΩ	±75 ppm/°C, ±100 ppm/°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**

PE0100 to PE0402 Range: -55°C to +125°C (Fig. 11)

PE0603 to PE4527 Range: -55°C to +170°C (Fig. 12)

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 (Ω)

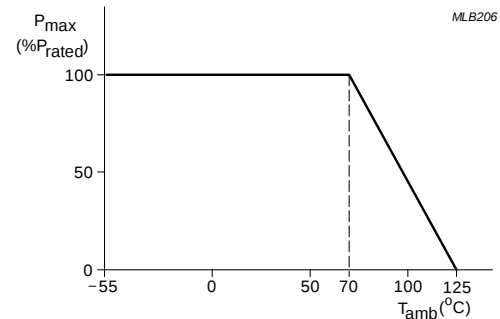


Fig. 11 Maximum dissipation (P_{max}) in percentage of rated power as a function of the operating ambient temperature (T_{amb})

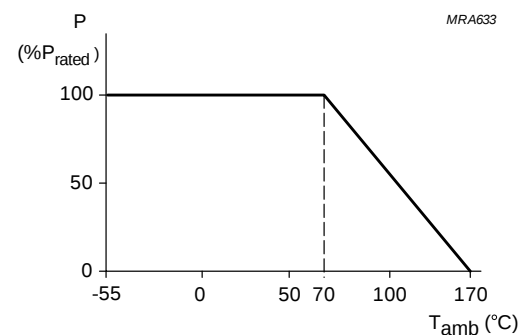


Fig. 12 Maximum dissipation (P_{max}) in percentage of rated power as a function of the operating ambient temperature (T_{amb})

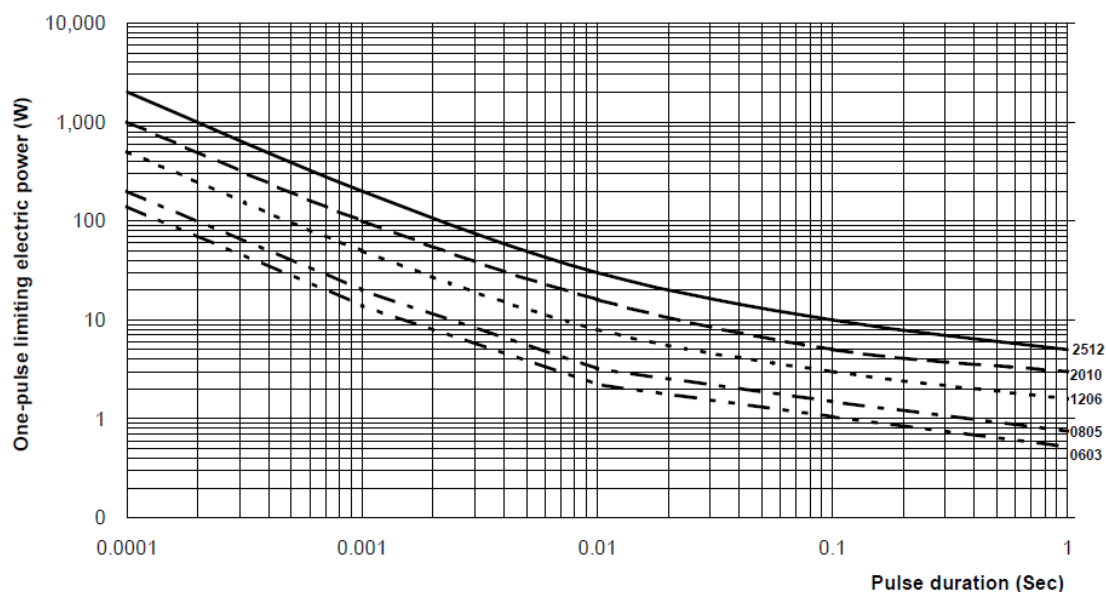
PULSE LOAD BEHAVIOR

Fig. 13 Maximum permissible peak pulse power as a function of pulse duration

Note: The curve of 2512 above is for 1W&2W

PACKING STYLE AND PACKAGING QUANTITY

Table 3 Packing style and packaging quantity

PACKING STYLE	REEL DIMENSION	PRODUCT SIZE / QUANTITY									
		0100	0201	0402	0603	0805	1206	2010	2512	2817	4527
Paper/PE taping reel (R)	7" (178 mm)	20,000	10,000	10,000	5,000	5,000	4,000	---	---	---	---
Embossed taping reel (K)	7" (178 mm)	---	---	---	---	---	---	4,000	4,000	4,000	1,000

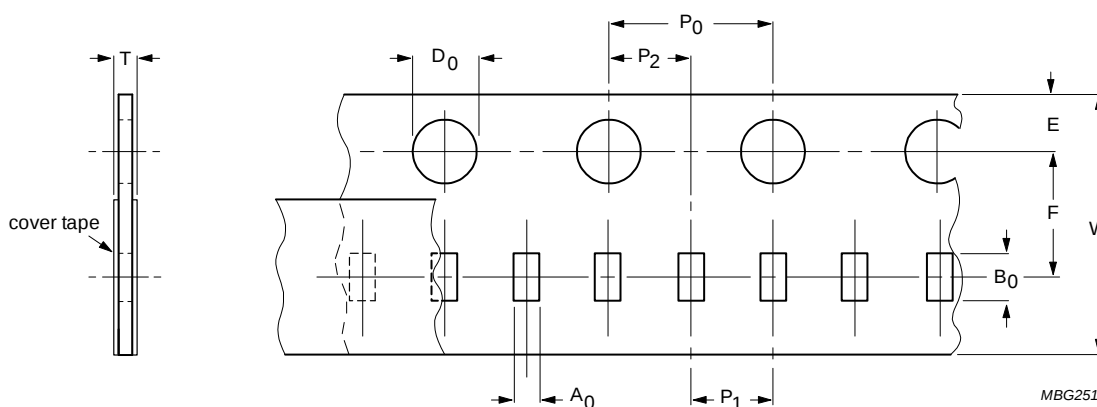
PAPER/PE TAPE

Fig. 14 Paper/PE Tape

Table 4 Dimensions of Paper/PE tape for relevant chip resistors size

SIZE	SYMBOL									Unit: mm
	A ₀	B ₀	W	E	F	P ₀	P ₁	P ₂	ØD ₀	
PE0100	0.24±0.03	0.45±0.03	8.00±0.20	1.75±0.10	3.50±0.05	4.00±0.05	2.00±0.10	2.00±0.05	1.50±0.10	0.31±0.10
PE0201	0.41±0.10	0.70±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	0.40±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	0.85±0.15

EMBOSED TAPPE

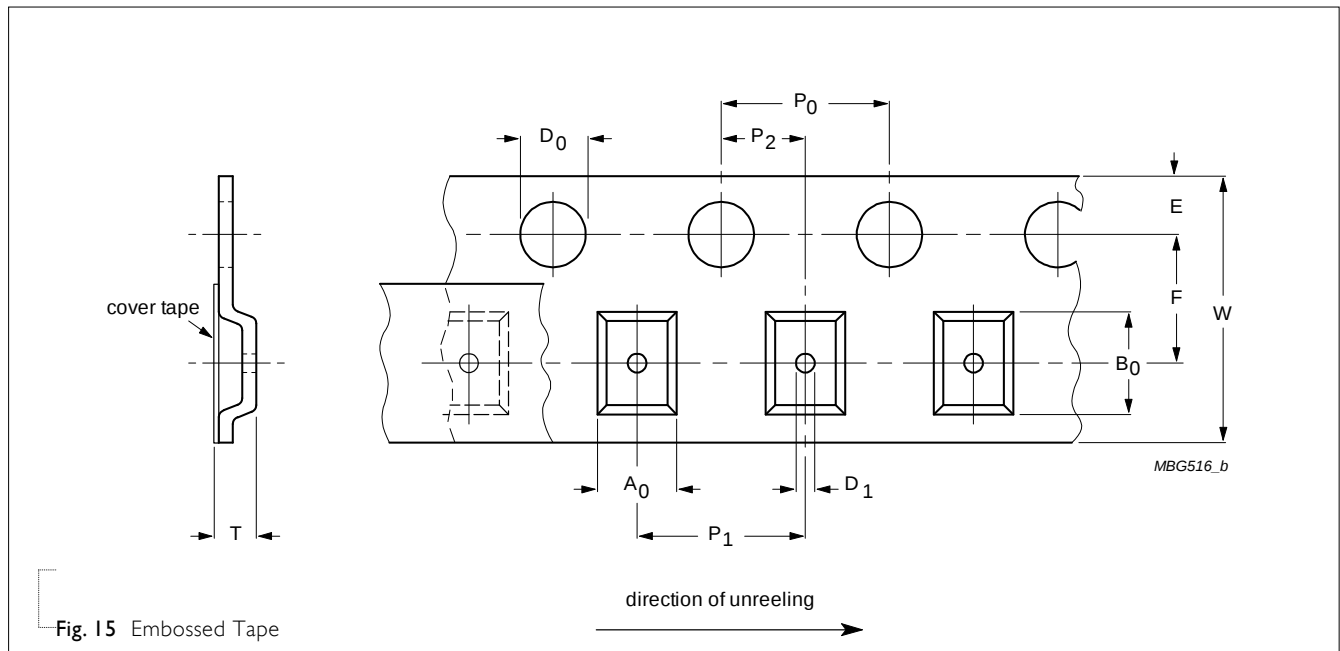


Table 5 Dimensions of embossed tape for relevant chip resistors size

SIZE	SYMBOL									Unit: mm
	A ₀	B ₀	W	E	F	P ₀	P ₁	P ₂	ØD ₀	
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
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
PE2817	4.50±0.20	7.40±0.20	12.00±0.20	1.75±0.10	5.50±0.05	4.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	1.50±0.10
PE4527	7.50±0.15	12.0±0.15	24.00±0.30	1.75±0.10	11.50±0.10	4.00±0.10	8.00±0.10	2.00±0.10	1.50±0.10	1.50±0.10

REEL SPECIFICATION

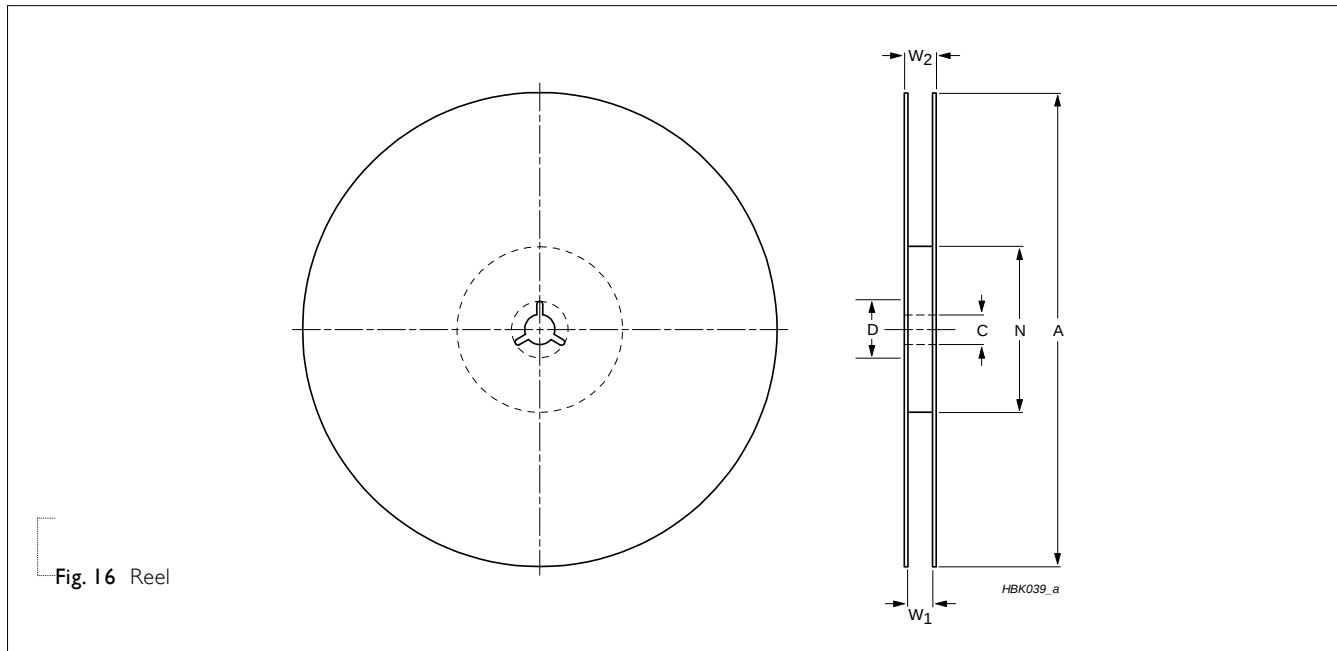
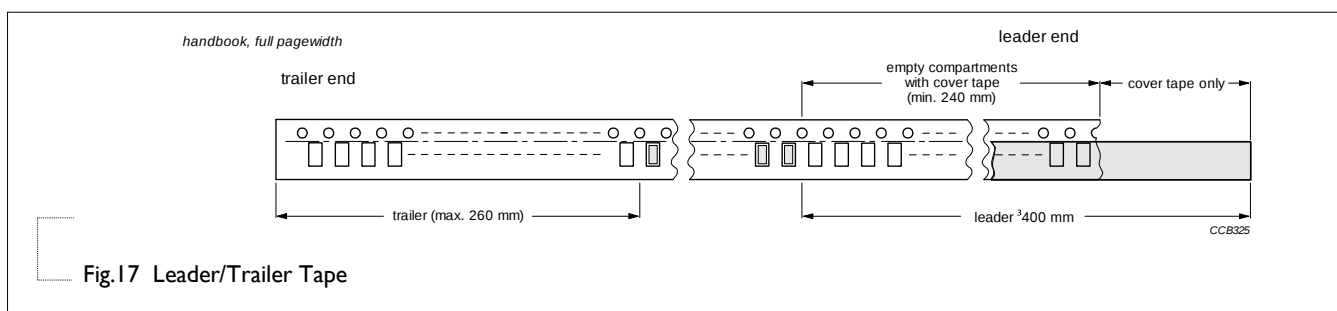


Table 6 Dimensions of reel specification for relevant chip resistors size

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.
PE0100	20,000	7" (Ø178 mm)	---	---	180.0+0/-3	60.0+1/-0	13.0±0.2	21.0±0.8	9.0±0.30	12.4
PE0201	10,000	7" (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" (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	5,000	7" (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	5,000	7" (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	4,000	7" (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	4,000	-- 7" (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	4,000	-- 7" (Ø178 mm)	--	--	180.0+0/-3	60.0+1/-0	13.0±0.2	21.0±0.8	12.3 +1/-0	18.4
PE2817	4,000	-- 7" (Ø178 mm)	--	--	180.0+0/-3	60.0+1/-0	13.0±0.2	21.0±0.8	12.3 +1/-0	18.4
PE4527	1,000	-- 7" (Ø178 mm)	--	--	178.0±1.0	60.0±1.0	13.5±0.5	17.7.±0.5	24.0±1.0	26.5

LEADER/TRAILER TAPE SPECIFICATION



FOOTPRINT AND SOLDERING PROFILES

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

FOOTPRINT

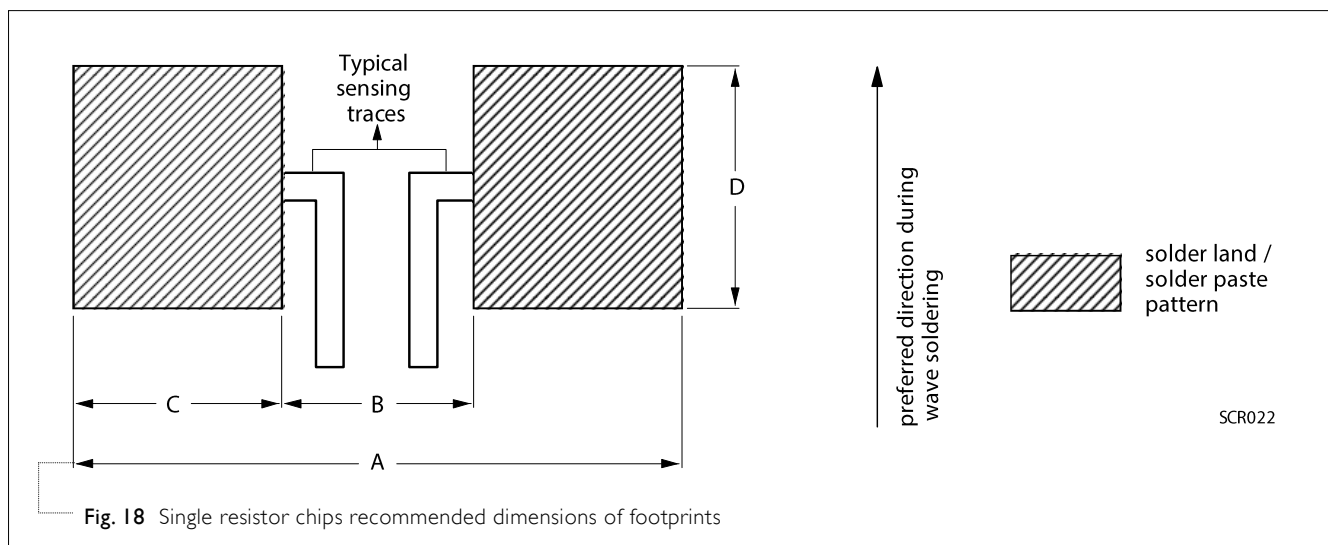


Table 7 Footprint dimensions

SIZE	RESISTANCE RANGE	A	B	C	D	Unit: mm
PE0100	$100\text{ m}\Omega \leq R \leq 1\Omega$	0.49~0.78	0.15~0.18	0.17~0.30	0.25~0.40	
PE0201	$50\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$	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	$5\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$	2.52	0.50	1.01	1.01	
PE0805	$5\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$	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	
	$7\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$	6.10	3.30	1.40	3.05	
PE2512	$6\text{ m}\Omega$	7.40	3.18	2.11	3.68	
	$7\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$	7.36	4.06	1.65	3.68	
PE2817	$20\text{ m}\Omega \leq R \leq 910\text{ m}\Omega$	8.10	3.20	2.45	4.80	
PE4527	$5\text{ m}\Omega$	14.50	4.00	5.25	8.05	
	$6\text{ m}\Omega \leq R \leq 120\text{ m}\Omega$	14.50	4.40	5.05	8.05	

TESTS AND REQUIREMENTS

Table 8 Test condition, procedure and requirements

TEST	TEST METHOD	PROCEDURE	REQUIREMENTS
Life/ Operational Life/ Endurance	MIL-STD-202G-method 108 IEC 60115-1 4.25.1	1,000 hours at 70±2 °C applied RCWV 1.5 hours on, 0.5 hour off, still air required	0100 : ±(3%+0.0005 Ω) Others : ±(1%+0.0005 Ω)
High Temperature Exposure/ Endurance at Upper Category Temperature	MIL-STD-202G-method 108 IEC 60115-1 4.25.3	1,000 hours at maximum operating temperature depending on specification, unpowered No direct impingement of forced air to the parts Tolerances: 0100/0201/0402 125±3 °C 0603 and above 170±3 °C	0100 : ±(3%+0.0005 Ω) Others : ±(1%+0.0005 Ω)
Moisture Resistance	MIL-STD-202G-method 106	Each temperature / humidity cycle is defined at 8 hours (method 106F), 3 cycles / 24 hours for 10d with 25 °C / 65 °C 95% R.H, without steps 7a & 7b, unpowered Parts mounted on test-boards, without condensation on parts Measurement at 24±2 hours after test conclusion	0100/0201: ±(5%+0.0005 Ω) Others: ±(0.5%+0.0005 Ω)
Thermal Shock	MIL-STD-202G-method 107	-55/+125 °C Note: Number of cycles required is 300. Devices mounted Maximum transfer time is 20 seconds. Dwell time is 15 minutes. Air – Air	±(1%+0.0005 Ω)
Short Time Overload	IEC60115-1 4.13	5 times of rated power for 5 seconds at room temperature	0100 : ±(2%+0.0005 Ω) Others : ±(1%+0.0005 Ω) No visible damage
Board Flex/ Bending	IEC60115-1 4.33	Device mounted on PCB test board as described, only 1 board bending required Bending for 0100 : 5mm 0201: 3mm 0402 and above: 2mm Holding time: minimum 60 seconds	±(1%+0.0005 Ω) No visible damage
Biased Humidity	MIL-STD-202 Method 103	1,000 hours at 85°C/85%R.H. 10% of operating power, no condensation on the devices, circulating air.	0100/0201: ±(5%+0.0005 Ω) Others : ±(1.0%+0.0005 Ω)

Chip Resistor Surface Mount

PE_L

SERIES

0100 to 4527

TEST	TEST METHOD	PROCEDURE	REQUIREMENTS
Solderability - Wetting	IPC/JEDEC J-STD-002B test B	Electrical Test not required Magnification 50X SMD conditions: 1 st step: method B, aging 4 hours at 155 °C dry heat 2 nd step: leadfree solder bath at 245±3 °C Dipping time: 3±0.5 seconds	Well tinned (≥95% covered) No visible damage
- Leaching	IPC/JEDEC J-STD-002B test D	Leadfree solder, 260 °C, 30 seconds immersion time	No visible damage
- Resistance to Soldering Heat	MIL-STD-202G-method 210F IEC 60115-1 4.18	Condition B, no pre-heat of samples Leadfree solder, 260 °C, 10 seconds immersion time Procedure 2 for SMD: devices fluxed and cleaned with isopropanol	0100 : ±(1%+0.0005 Ω) Others : ±(0.5%+0.0005 Ω) No visible damage

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 10	Jan. 18, 2021	-	- Add rated power of PE2512 3W&5W - Add sizes of PE0100, PE2817 and PE4527
Version 9	Sep. 1, 2020	-	- Update dimensions of tape for PE0201 and PE1206
Version 8	Jun. 11, 2020	-	- Update the dimension for PE0805 5mohm & 6mohm - Update the marking for PE0603 - Extend resistance range for PE0201
Version 7	Jan. 21, 2019	-	- Extended resistor value for PE2010 and 2512
Version 6	Oct. 22, 2018	-	- Extend resistor value for PE0603 and 0805, and 0.1% tol for 0805 > 50mΩ - Add in pulse load behavior
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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