DataSheet No:E16018

Version:V1

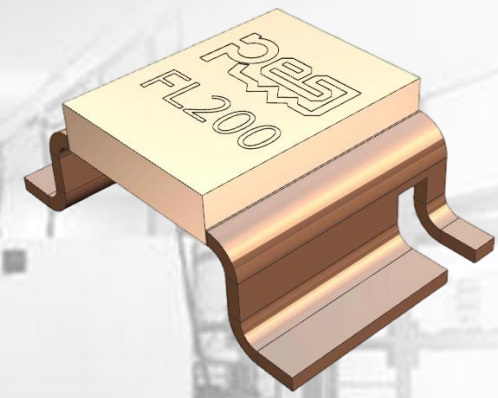
Date:2026/04/30

睿思

## High-Precision Low TCR
## Alloy Current Sensing Resistor

# PEWM4026

| | |
|---|---|
| Resistance | 0.2mΩ ~ 1.0mΩ |
| Tolerance | ±0.5% |
| TCR | ±75ppm/℃,±100ppm/℃ |
| Rated current | 83-240A |



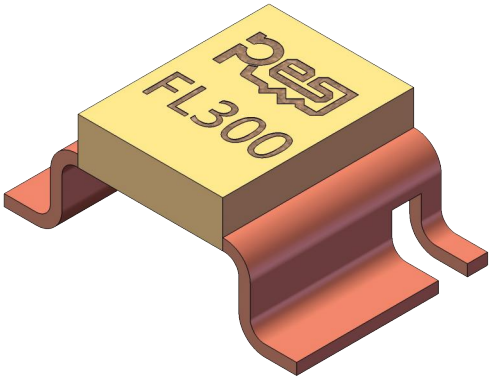

**Applicable to**

Electric Vehicles | Precision Power Supplies | AI Servers

Lithium-Ion Battery and Semiconductor Test Equipment

Energy Storage | Medical Equipment

# Low TCR Alloy Current Sensing Resistor
# “Trimming Free” Technology, High Precision & Reliability




## Introduction

High-precision low-temperature coefficient alloy current-sensing resistors are manufactured by C&B Electronics using precision resistance alloys independently developed by the company, which are processed with precision and then welded by special electron beam welding equipment independently designed and manufactured by C&B Electronics. Based on the perfect combination of the control capability of resistance alloy consistency, precision processing capability, and high-efficiency welding level, the product can achieve the target accuracy of up to ±0.5% without resistance trimming after stamping. In the range of -55°C to +170°C, the temperature coefficient of 0.2mΩ and 0.3mΩ in this series can reach within ±75ppm/°C, the temperature coefficient of 0.5mΩ and 1.0mΩ can reach ±100ppm/°C, and the inductance is less than 3nH.

The "Trimming Free" technology avoids the rated current loss caused by resistance trimming and the current concentration hotspots caused by resistance trimming notches, which greatly improves the reliability of the product. At the same time, due to the improvement of welding quality, the thermoelectric potential of the product is significantly reduced, and the long-term stability of the product is improved.

The raw materials, core equipment, and core processes of this series of products are all independently controllable, with stable quality and timely delivery. If the standard specifications cannot meet your needs, please contact our sales staff for consultation. C&B is committed to providing users with the best precision resistance solutions to meet the needs of customers in instruments, medical equipment, automotive electronics, precision power supplies, cell sorting and formation, testing and measurement equipment, etc.

RoHS AEC-Q200 3D

## Electrical Parameters

| Series | Resistance | Rated Power (+70°C) | Max. Operating Current | Operating Temperature | TCR ppm/°C(+20°C Ref) | Thermal Resistance 1 °C/W | Tolerance % |
|---|---|---|---|---|---|---|---|
| PEWM4026 | 0.2mΩ | 12W | 240A | -55°C~+170°C | ±75(-55°C～+170°C) | 4.8 | ±0.5<br>±1.0<br>±5.0 |
| PEWM4026 | 0.3mΩ | 11W | 190A | -55°C~+170°C | ±75(-55°C～+170°C) | 5.9 | ±0.5<br>±1.0<br>±5.0 |
| PEWM4026 | 0.5mΩ | 9W | 134A | -55°C~+170°C | ±100(-55°C～+170°C) | 8.5 | ±0.5<br>±1.0<br>±5.0 |
| PEWM4026 | 1.0mΩ | 7W | 83A | -55°C~+170°C | ±100(-55°C～+170°C) | 12.6 | ±0.5<br>±1.0<br>±5.0 |

* Thermal Resistance: Refer to the internal thermal resistance between the center of the resistive alloy and the copper electrode.
As the heat dissipation efficiency is influenced by operating environment, copper bus bars, PCB design, etc., this parameter is only for reference.

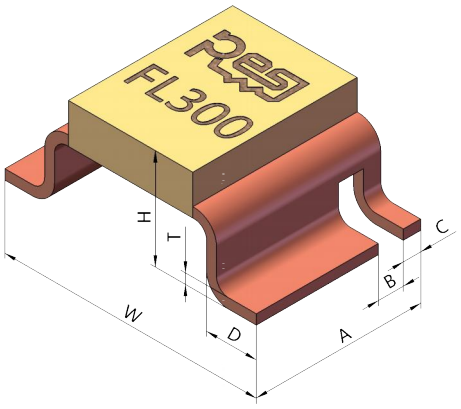
## Applications

PEWM4026 inductance < 3nH, PEWM4026 is suitable for AC and DC, low and high frequency current sensing circuits.

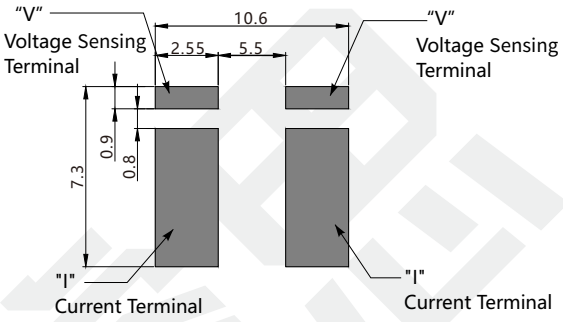
## Dimensions

**Unit:mm**

### Resistor




### Land Pattern




Non-compliance with pad design requirements degrades TCR and current sensing accuracy!

| Resistance | T | H | W | A | B | C | D | Packaging | Quantity Per Reel | Net Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.2mΩ | 0.4±0.2 | 3.75±0.5 | 10.1±0.3 | 6.6±0.3 | 1.0±0.3 | 0.7±0.3 | 2.0±0.3 | Tape & Reel | 1200pcs | 0.54±0.2g |
| 0.3mΩ | 0.4±0.2 | 3.33±0.5 | 10.1±0.3 | 6.6±0.3 | 1.0±0.3 | 0.7±0.3 | 2.0±0.3 | Tape & Reel | 1200pcs | 0.43±0.2g |
| 0.5mΩ | 0.4±0.2 | 3.10±0.5 | 10.1±0.3 | 6.6±0.3 | 1.0±0.3 | 0.7±0.3 | 2.0±0.3 | Tape & Reel | 1200pcs | 0.36±0.1g |
| 1.0mΩ | 0.4±0.2 | 2.85±0.5 | 10.1±0.3 | 6.6±0.3 | 1.0±0.3 | 0.7±0.3 | 2.0±0.3 | Tape & Reel | 1200pcs | 0.29±0.1g |

## Part Number Information

Example:PEWM4026FL200A9 ( PEWM 4026 ±1.0% 0.2mΩ ±75ppm/°C Standard)

| P | E | W | M | 4 | 0 | 2 | 6 | F | L | 2 | 0 | 0 | A | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Series | Size | Tolerance | Resistance | TCR | Code |
|---|---|---|---|---|---|
| PEWM | 4026 | D=±0.5%<br>F=±1.0%<br>J=±5.0% | L200=0.2mΩ<br>L300=0.3mΩ<br>L500=0.5mΩ<br>1L00=1.0mΩ | A=±75ppm/°C<br>K=±100ppm/°C | 9=Standard |

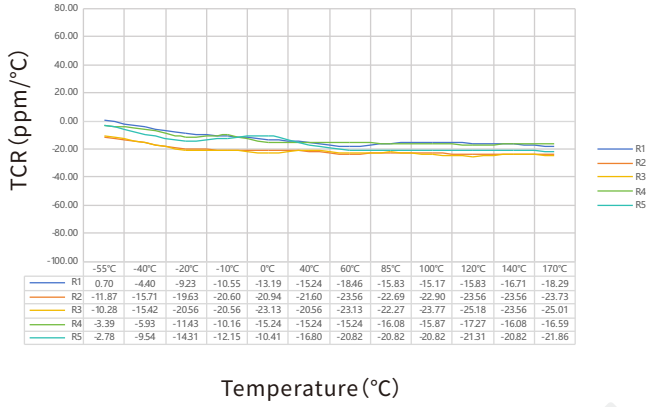
For higher/lower resistance, tighter tolerance, higher power, lower TCR and larger size, please contact us.

## Performance

| Test | Test Method | Standards | Typical | Max. |
|---|---|---|---|---|
| High Temperature Storage | 1000h@+170°C, unpowered | AEC-Q200 TEST 3<br>MIL-STD-202 Method 108 | △R≤±0.5% | △R≤±1.0% |
| Thermal Shock | -55°C, 15min~ambient<20s~+155°C, 15min, 1000cycles | AEC-Q200 TEST 16<br>MIL-STD-202 Method 107 | △R≤±0.5% | △R≤±1.0% |
| Bias Humidity | +85°C, 85%RH, powered 10% rated power for 1000h | AEC-Q200 TEST 7<br>MIL-STD-202 Method 103 | △R≤±0.2% | △R≤±0.5% |
| Load Life | 2000 h @ +70°C*, rated power, 90min on, 30min off<br>*70°C is the terminal temperature | AEC-Q200 TEST 8<br>MIL-STD-202 Method 108 | △R≤±0.5% | △R≤±1.0% |
| Resistance to Solvent | Immerse in solvent for 3 min and wipe 10 times. Three cycles of three solvents. Dry at ambient temperature after cleaning | AEC-Q200 TEST 12<br>MIL-STD-202 Method 215 | Clear marking. No visible damage | |
| Mechanical Shock | Half sine wave, peak acceleration 100g's, pulse duration 6ms, 3 times in each of six directions, on three different axes | AEC-Q200 TEST 13<br>MIL-STD-202 Method 213 | △R≤±0.05% | △R≤±0.2% |
| Vibration | 10-2KHz, 5g's, 20 min per cycle, 12 in each of the three directions of X.Y.Z loops | AEC-Q200 TEST 14<br>MIL-STD-202 Method 204 | △R≤±0.05% | △R≤±0.2% |
| Resistance to Solder Heat | +260°C constant temperature station for 10s | AEC-Q200 TEST 15<br>MIL-STD-202 Method 210 | △R≤±0.2% | △R≤±0.5% |
| Solderability | +245°C tin bath for 3s | AEC-Q200 TEST 18<br>IEC 60115-1 4.17 | No visible damage.<br>95% minimum coverage | |
| TCR | +20°C and +170°C, +20°C Ref. | AEC-Q200 TEST 19<br>IEC 60115-1 4.8 | Refer to tested curve,<br>max. value ≤ 100ppm/°C | |
| Board Flex | 2mm. Duration: 60s. | AEC-Q200 TEST 21<br>AEC-Q200-005 | △R≤±0.1% | △R≤±0.5% |
| Short Time Overload | 5x rated power, 5s | IEC 60115-1 4.13 | △R≤±0.5% | △R≤±1.0% |
| Low Temperature Storage | -55°C for 96h, unpowered | IEC 60068-2-1 | △R = 0 | △R≤±0.1% |
| Moisture Resistance | Apply T=24 h/cycle, zero power,<br>method 7a and 7b are not required | MIL-STD-202 Method 106 | △R = 0 | △R≤±0.2% |

## Temperature Coefficient of Resistance Test Curve

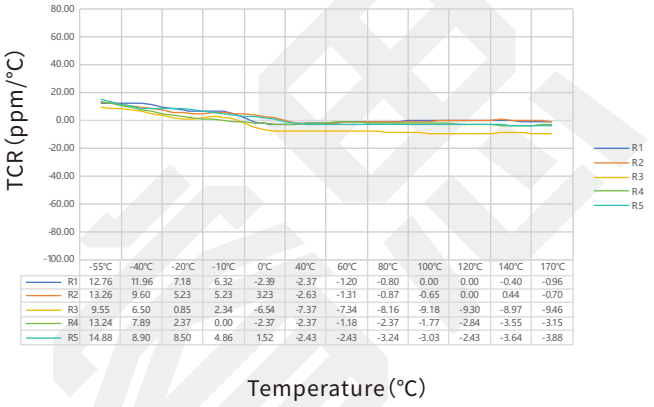
TCR Test Curve -PEWM4026 0.2mΩ




| | -55°C | -40°C | -20°C | -10°C | 0°C | 40°C | 60°C | 85°C | 100°C | 120°C | 140°C | 170°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R1 | 0.70 | -4.40 | -9.23 | -10.55 | -13.19 | -15.24 | -18.46 | -15.83 | -15.17 | -15.83 | -16.71 | -18.29 |
| R2 | -11.87 | -15.71 | -19.63 | -20.60 | -20.94 | -21.60 | -23.56 | -22.69 | -22.90 | -23.56 | -23.56 | -23.73 |
| R3 | -10.28 | -15.42 | -20.56 | -20.56 | -23.13 | -20.56 | -23.13 | -22.27 | -23.77 | -25.18 | -23.56 | -25.01 |
| R4 | -3.39 | -5.93 | -11.43 | -10.16 | -15.24 | -15.24 | -15.24 | -16.08 | -15.87 | -17.27 | -16.08 | -16.59 |
| R5 | -2.78 | -9.54 | -14.31 | -12.15 | -10.41 | -16.80 | -20.82 | -20.82 | -20.82 | -21.31 | -20.82 | -21.86 |

Temperature (°C)

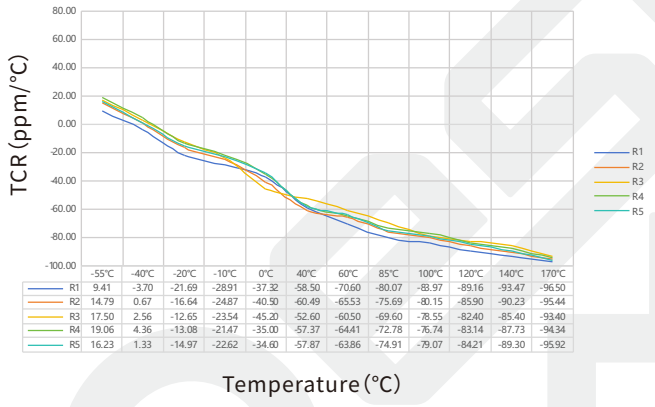
TCR Test Curve -PEWM4026 0.3mΩ




| | -55°C | -40°C | -20°C | -10°C | 0°C | 40°C | 60°C | 80°C | 100°C | 120°C | 140°C | 170°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R1 | 12.76 | 11.96 | 7.18 | 6.32 | -2.39 | -2.37 | -1.20 | -0.80 | 0.00 | 0.00 | -0.40 | -0.96 |
| R2 | 13.26 | 9.60 | 5.23 | 5.23 | 3.23 | -2.63 | -1.31 | -0.87 | -0.65 | 0.00 | 0.44 | -0.70 |
| R3 | 9.55 | 6.50 | 0.85 | 2.34 | -6.54 | -7.37 | -7.34 | -8.16 | -9.18 | -9.30 | -8.97 | -9.46 |
| R4 | 13.24 | 7.89 | 2.37 | 0.00 | -2.37 | -2.37 | -1.18 | -2.37 | -1.77 | -2.84 | -3.55 | -3.15 |
| R5 | 14.88 | 8.90 | 8.50 | 4.86 | 1.52 | -2.43 | -2.43 | -3.24 | -3.03 | -2.43 | -3.64 | -3.88 |

Temperature (°C)

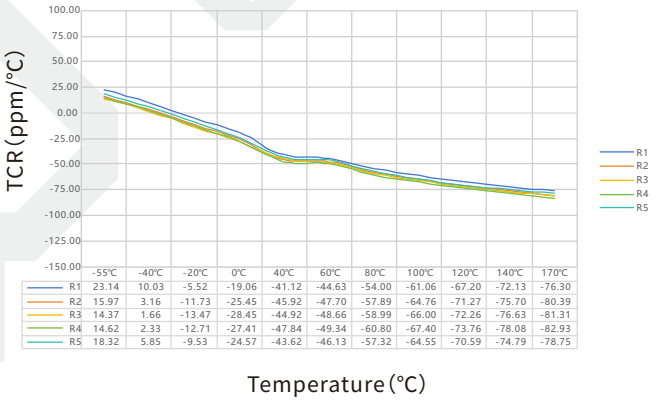
TCR Test Curve -PEWM4026 0.5mΩ




| | -55°C | -40°C | -20°C | -10°C | 0°C | 40°C | 60°C | 85°C | 100°C | 120°C | 140°C | 170°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R1 | 9.41 | -3.70 | -21.69 | -28.91 | -37.32 | -58.50 | -70.60 | -80.07 | -88.97 | -89.16 | -93.47 | -96.50 |
| R2 | 14.79 | 0.67 | -16.64 | -24.87 | -40.50 | -60.49 | -65.53 | -75.69 | -80.15 | -85.90 | -90.23 | -95.44 |
| R3 | 17.50 | 2.56 | -12.65 | -23.54 | -45.20 | -52.60 | -60.50 | -69.60 | -78.55 | -82.40 | -85.40 | -93.40 |
| R4 | 19.06 | 4.36 | -13.08 | -21.47 | -35.00 | -57.37 | -64.41 | -72.78 | -76.74 | -83.14 | -87.73 | -94.34 |
| R5 | 16.23 | 1.33 | -14.97 | -22.62 | -34.60 | -57.87 | -63.86 | -74.91 | -79.07 | -84.21 | -89.30 | -95.92 |

Temperature (°C)

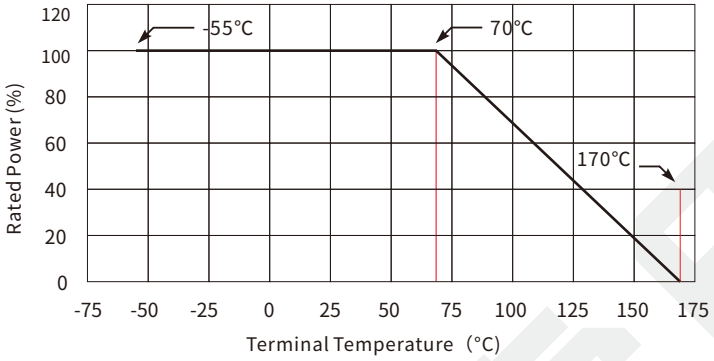
TCR Test Curve -PEWM4026 1.0mΩ




| | -55°C | -40°C | -20°C | 0°C | 40°C | 60°C | 80°C | 100°C | 120°C | 140°C | 170°C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R1 | 23.14 | 10.03 | -5.52 | -19.06 | -41.12 | -44.63 | -54.00 | -61.06 | -67.20 | -72.13 | -76.30 |
| R2 | 15.97 | 3.16 | -11.73 | -25.45 | -45.92 | -47.70 | -57.89 | -64.76 | -71.27 | -75.70 | -80.39 |
| R3 | 14.37 | 1.66 | -13.47 | -28.45 | -44.92 | -48.66 | -58.99 | -66.00 | -72.26 | -76.63 | -81.31 |
| R4 | 14.62 | 2.33 | -12.71 | -27.41 | -47.84 | -49.34 | -60.80 | -67.40 | -73.76 | -78.08 | -82.93 |
| R5 | 18.32 | 5.85 | -9.53 | -24.57 | -43.62 | -46.13 | -57.32 | -64.55 | -70.59 | -74.79 | -78.75 |

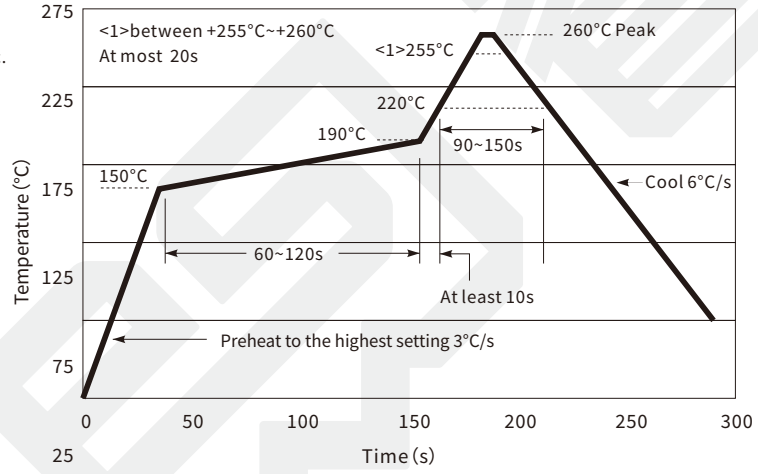
Temperature (°C)

## Derating Curve

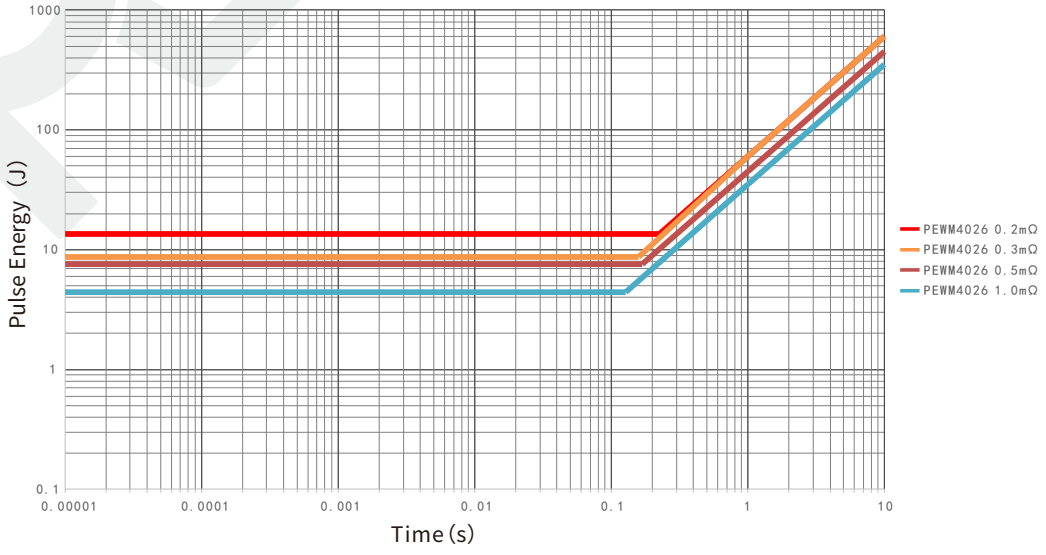



## Reflow Soldering Profile

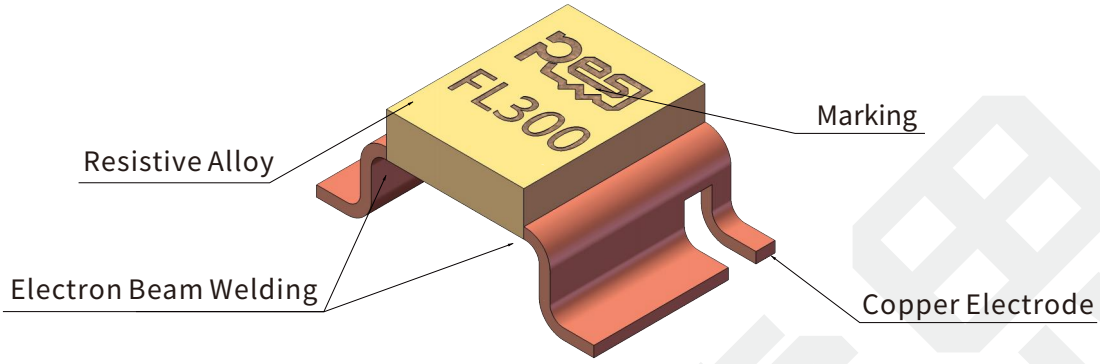
Resistor Surface Temperature:
Pre-Heat: +150°C~+190°C, 60~120sec.
Reflow: +220°C and above, 90~150sec.
Applicable Solder Composition:
Sn-Ag-Cu .




## Max. Pulse Energy Curve

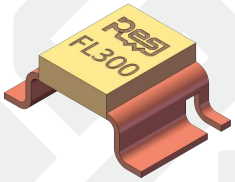


## Construction




## Marking

Marking: LOGO+Tolerance+Resistance

| Size | Illustration | Demonstration |
|---|---|---|
| 4026 |  | RESI：Brand<br>F：Tolerance<br>L300：Resistance |

## Storage Instructions

(1) Resistors should be stored at a temperature of 5 to 35 °C, with a humidity of<60% RH. The humidity should be kept as low as possible.

(2) Resistors should be protected from direct sunlight.

(3) Resistors should be stored in a clean and dry environment free of harmful gases (HCl, Sulfuric acid, $H_2S$, etc.)

(4) Do not move the resistor from the packaging unless use it.

(5) Under the above storage conditions, the resistor can be stored for at least 1 year.

## Usage Suggestions

(1) Please protect the surface of the resistor during use. Prevent defects such as scratches, bumps, and oil stains on the surface.

(2) Do not use sharp tweezers to move the resistor. Scratches on the surface can cause resistance drift and resistor failure.

(3) When installing and using resistors, avoid the impact of mechanical stress on the resistor.

(4) The long-term operating power of resistors should be less than the rated power to avoid resistance drift caused by long-term overload.

(5) Please refer to the derating curve when operating under high temperature conditions or poor heat dissipation environment.

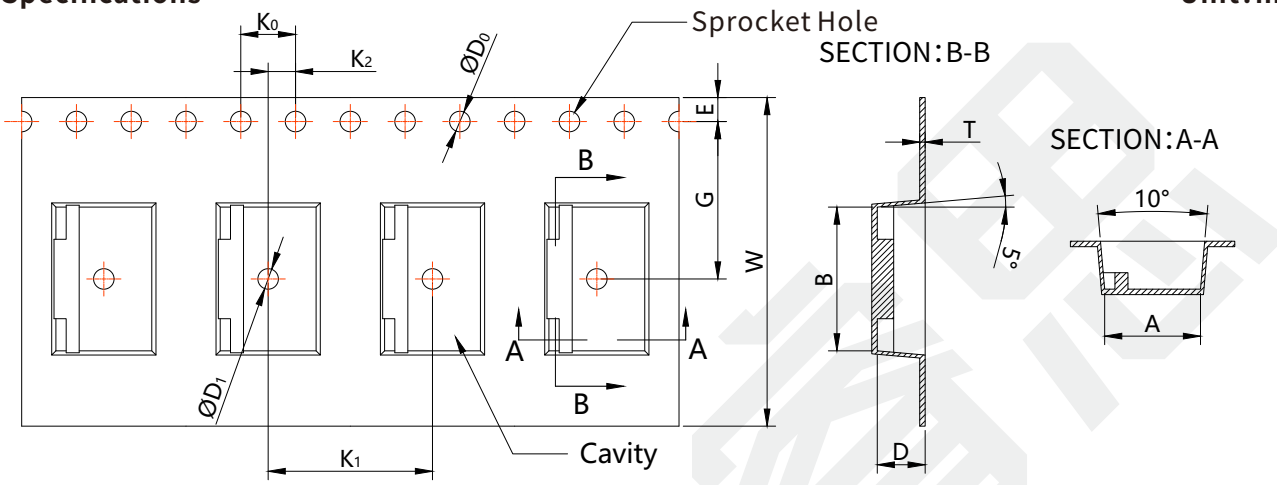
(6) If the operating conditions exceed the pulse specified in the pulse curve, a systematic evaluation is required.

(7) If the resistor is not used after being moved from the packaging, it should be stored under vacuum to avoid risks such as poor solderability caused by oxidation of the resistor.

## Packaging

### Tape Specifications

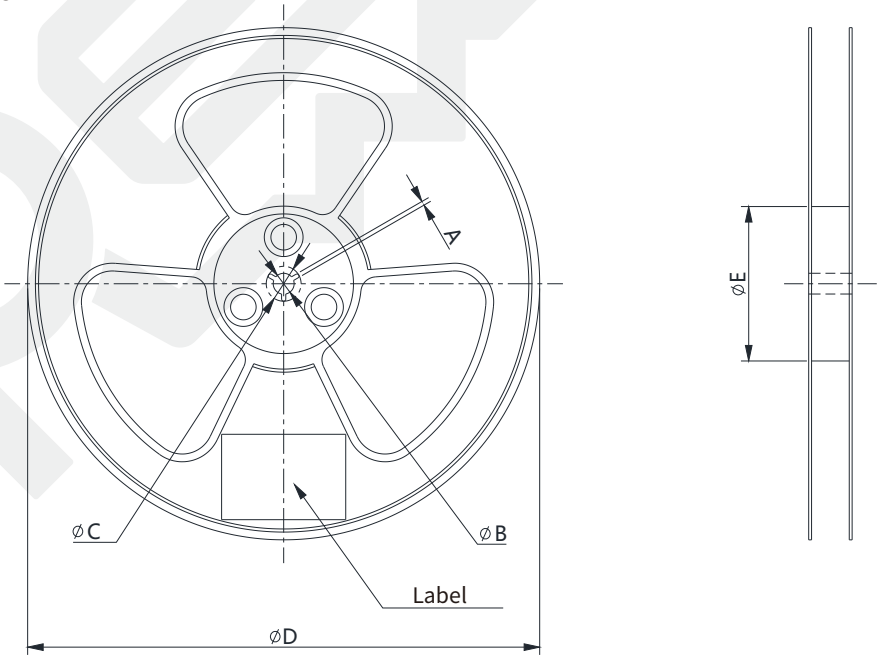
Unit:mm




| Resistance | A | B | ϕD₀ | ϕD₁ | K₀ | K₁ | K₂ | E | G | W | D | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.2mΩ | 7.0±0.1 | 10.5±0.1 | $1.5^{+0.1}_{-0}$ | $1.5^{+0.1}_{-0}$ | 4.0±0.1 | 12.0±0.1 | 2.0±0.1 | 1.75±0.1 | 11.5±0.1 | 24.0±0.3 | 4.2±0.1 | 0.4±0.05 |
| 0.3mΩ | 7.0±0.1 | 10.5±0.1 | $1.5^{+0.1}_{-0}$ | $1.5^{+0.1}_{-0}$ | 4.0±0.1 | 12.0±0.1 | 2.0±0.1 | 1.75±0.1 | 11.5±0.1 | 24.0±0.3 | 4.2±0.1 | 0.4±0.05 |
| 0.5mΩ | 7.0±0.1 | 10.5±0.1 | $1.5^{+0.1}_{-0}$ | $1.5^{+0.1}_{-0}$ | 4.0±0.1 | 12.0±0.1 | 2.0±0.1 | 1.75±0.1 | 11.5±0.1 | 24.0±0.3 | 3.5±0.1 | 0.4±0.05 |
| 1.0mΩ | 7.0±0.1 | 10.5±0.1 | $1.5^{+0.1}_{-0}$ | $1.5^{+0.1}_{-0}$ | 4.0±0.1 | 12.0±0.1 | 2.0±0.1 | 1.75±0.1 | 11.5±0.1 | 24.0±0.3 | 3.5±0.1 | 0.4±0.05 |

### Reel Specifications

Unit:mm




| A | ϕB | ϕC | ϕD | ϕE |
|---|---|---|---|---|
| 1.5 Min. | 13.0 +0.5/-0.2 | 20.2 Min. | 330±2 | 100±2 |

## Packaging

(1) 1200 pcs. resistors are packed in a tape and wrapped in a reel;

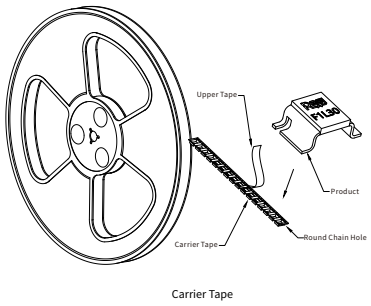
(2) Every 1 reel is packed by a cardboard sleeve case. The size of the cardboard is 335mm*340mm*37mm;

(3) Place every 3 cases into a box (3600 pcs. / box);

(4) Bubble wrap or EPE should be placed to prevent products from shaking or vibration.

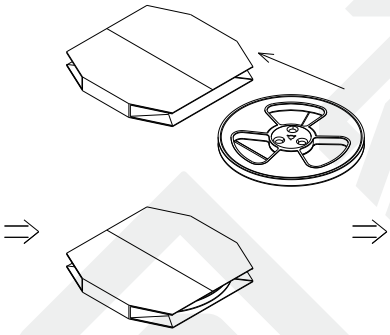
(5) Box size: 350mm*370mm*165mm.

Note: If ordered quantity or partial cartons do not align with the standard quantities, the final shipping configuration shall be subject to our shipment packaging.

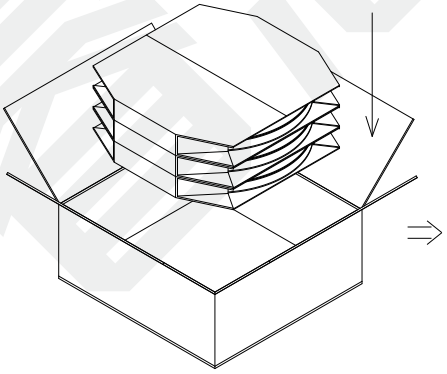


Carrier Tape

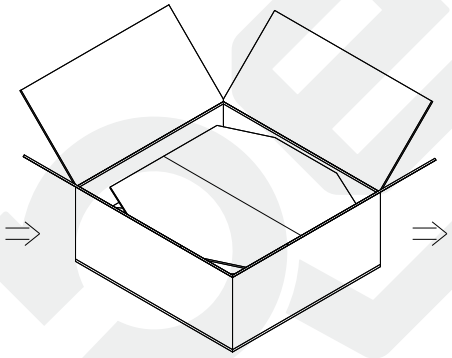
1. 1200 pcs. resistors are packed in a tape and wrapped in a reel.



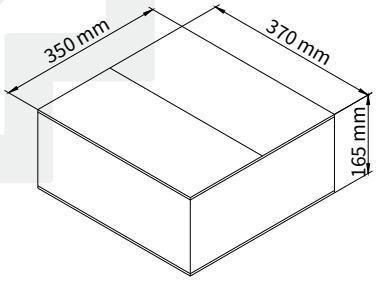
2. Every 1 reel is packed by a cardboard sleeve case. The size of the cardboard is 335mm*340mm*37mm;



3. Place every 3 cases into a box (3600 pcs. / box).



4. Bubble wrap or EPE should be placed to prevent products from shaking or vibration.




5. Box size: 350mm*370mm*165mm

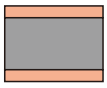
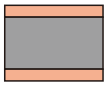
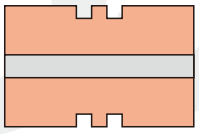
## Popular Part Numbers

| Part Number | Size | Tolerance | Resistance | TCR | Rated Power | Max. Operating Current |
|---|---|---|---|---|---|---|
| PEWM4026DL200A9 | 4026 | ±0.5% | 0.2mΩ | ±75ppm/°C | 12W | 240A |
| PEWM4026FL200A9 | 4026 | ±1.0% | 0.2mΩ | ±75ppm/°C | 12W | 240A |
| PEWM4026JL200A9 | 4026 | ±5.0% | 0.2mΩ | ±75ppm/°C | 12W | 240A |
| PEWM4026DL300A9 | 4026 | ±0.5% | 0.3mΩ | ±75ppm/°C | 11W | 190A |
| PEWM4026FL300A9 | 4026 | ±1.0% | 0.3mΩ | ±75ppm/°C | 11W | 190A |
| PEWM4026JL300A9 | 4026 | ±5.0% | 0.3mΩ | ±75ppm/°C | 11W | 190A |
| PEWM4026DL500K9 | 4026 | ±0.5% | 0.5mΩ | ±100ppm/°C | 9W | 134A |
| PEWM4026FL500K9 | 4026 | ±1.0% | 0.5mΩ | ±100ppm/°C | 9W | 134A |
| PEWM4026JL500K9 | 4026 | ±5.0% | 0.5mΩ | ±100ppm/°C | 9W | 134A |
| PEWM4026D1L00K9 | 4026 | ±0.5% | 1.0mΩ | ±100ppm/°C | 7W | 83A |
| PEWM4026F1L00K9 | 4026 | ±1.0% | 1.0mΩ | ±100ppm/°C | 7W | 83A |
| PEWM4026J1L00K9 | 4026 | ±5.0% | 1.0mΩ | ±100ppm/°C | 7W | 83A |

## Broad Portfolio of Current Sensing Resistors

| Series | Product | Rated Power +70°C | Resistance Range | Tightest Tolerance | Best TCR |
|---|---|---|---|---|---|
| PCSR2512 |  | 1W~2W | 5mΩ~100mΩ | ±0.1% | ±10ppm/°C |
| PCSR3637 |  | 2W~3W | 1mΩ~200mΩ | ±0.1% | ±15ppm/°C |
| PCSK2512 |  | 1W | 5mΩ~100mΩ | ±0.5% | ±25ppm/°C |
| PCSK3637 |  | 2W~5W | 1mΩ~200mΩ | ±0.5% | ±25ppm/°C |
| MCSM2512 |  | 3W | 0.5mΩ~2mΩ | ±0.5% | ±100ppm/°C |
| MCSF2512 |  | 2W~3W | 3mΩ~100mΩ | ±0.5% | ±50ppm/°C |
| PEWM1206 |  | 6W | 0mΩ~1mΩ | ±1.0% | ±100ppm/°C |
| PEWM1216 |  | 7W~10W | 0.3mΩ~1.0mΩ | ±1.0% | ±100ppm/°C |
| PEWK1216 |  | 3W~5W | 2.0mΩ~3.0mΩ | ±1.0% | ±50ppm/°C |
| PEWM2512 |  | 3W-6W | 0mΩ~1mΩ | ±0.5% | ±100ppm/°C |
| SEWK2512 |  | 4W~5W | 1mΩ~3mΩ | ±0.5% | ±10ppm/°C |
| EBWM2512 |  | 6W | 0mΩ~1mΩ | ±0.5% | ±200ppm/°C |
| EBWK2512 |  | 2.5W~5W | 2mΩ~5mΩ | ±0.5% | ±100ppm/°C |
| SEWF2512 |  | 2.5W~4W | 3mΩ~5mΩ | ±0.5% | ±25ppm/°C |
| PEWF2512 |  | 2.5W~5W | 1.5mΩ~5mΩ | ±0.5% | ±50ppm/°C |
| PEWM3920 |  | 8W~12W | 0.2mΩ~1mΩ | ±0.5% | ±100ppm/°C |
| PEWK3920 |  | 3W~8W | 1mΩ~5mΩ | ±0.5% | ±50ppm/°C |
| SEWF3920 |  | 3W~8W | 1mΩ~5mΩ | ±0.5% | ±25ppm/°C |
| SEWK3920 |  | 5W~8W | 1mΩ~3mΩ | ±0.5% | ±10ppm/°C |
| SEWM3920 |  | 8W~12W | 0.2mΩ~1mΩ | ±0.5% | ±50ppm/°C |

## Broad Portfolio of Current Sensing Resistors

| Series | Product | Rated Power +70°C | Resistance Range | Tightest Tolerance | Best TCR |
|---|---|---|---|---|---|
| SEWK3951 |  | 15W | 0.25mΩ~0.4mΩ | ±0.5% | ±25ppm/°C |
| SEWF3951 |  | 10W~15W | 0.3mΩ~0.8mΩ | ±0.5% | ±25ppm/°C |
| SEWF5930 |  | 6W~10W | 1mΩ~3mΩ | ±0.5% | ±25ppm/°C |
| PEWM5930 |  | 6W~15W | 0.1mΩ~1.5mΩ | ±0.5% | ±100ppm/°C |
| PEWK5930 |  | 10W | 1mΩ | ±0.5% | ±50ppm/°C |
| SEWM5930 |  | 9W~15W | 0.2mΩ~1mΩ | ±0.5% | ±50ppm/°C |
| PEWF4026 |  | 3W~7W | 1mΩ~5mΩ | ±0.5% | ±50ppm/°C |
| PEWF2726 |  | 3W~7W | 1mΩ~5mΩ | ±0.5% | ±50ppm/°C |
| PEWM4026 |  | 7W~12W | 0.2mΩ~1mΩ | ±0.5% | ±75ppm/°C |
| PEWM2726 |  | 7W~12W | 0.2mΩ~1mΩ | ±0.5% | ±75ppm/°C |
| SEWK6398 |  | 4W | 0.1mΩ | ±1.0% | ±10ppm/°C |

## Revision

| Version | Revised Content | Date | Approver |
|---|---|---|---|
| V0 | Initial Issue | 2025.06.27 | LWW |
| V1 | Add new page of broad portfolio of curent sensing resistors | 2026.04.30 | LWW |

## Disclaimer

All products, datasheets and data can be changed without prior notice.

C&B Electronics Shenzhen CO., LTD., its affiliates, distributors, employees, and any other person acting on its behalf (collectively referred to as "C&B Electronics") shall not bear any legal responsibility for any errors, inaccuracies, or incompleteness of information related to the product disclosed under this agreement or other disclosures.

Product datasheet does not constitute an extension or revision of the purchase terms and conditions in C&B Electronics, including but not limited to the warranties under this agreement.

Unless specified in the purchase terms and conditions, C&B Electronics makes no guarantees, representations or warranties.

**To the maximum extent permitted by applicable laws, C&B Electronics hereby makes the following disclaimer:**
**(1) All liabilities arising from the use of the product;**
**(2) Including but not limited to all liabilities arising from special, indirect or incidental damages;**
**(3) All implied warranties, including warranties of suitability for special purposes, non infringement possibility, and marketability.**

The information provided in the datasheet and parameter tables may vary in different applications, and the performance of the product may change over time. The recommended application instructions for the product are based on C&B Electronics' understanding and experience of typical requirements. Customers are obligated to verify whether the product is suitable for a specific application based on the parameters provided in the datasheet . Before officially installing or using the product, you should ensure that you have obtained the latest version of relevant information, which can be obtained through the website: resistor.today.

The signing of this agreement does not constitute an express, implied or other form of license related to all intellectual property rights of C&B Electronic Products.

Unless explicitly stated, the products listed in this agreement are not applicable to lifesaving or life sustaining products. In the absence of a clear indication, the customer shall bear all risks caused by unauthorized use of the above products and agree to fully compensate C&B Electronics for all losses caused by such sales or use. For written product terms for such special applications, please contact authorized personnel from C&B Electronics to obtain.

The names and markings on the listed products may be trademarks owned by others.