

## 零 件 承 认 书

SPECIFICATION FOR APPROVAL

客户名称：0001

规格描述：ZECD54YP0504功率电感系列规格书

日 期：2024/09/10

增益签核：

| 制订 | 审核 | 核准 |
|----|----|----|
| 夏琳 | 陈雨 | 李万 |

客户签核：

| 工程 | 审核 | 核准 |
|----|----|----|
|    |    |    |



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物料类型：

功率电感

日 期：

2024/09/10

版 本：

A



### ■ Features

- High current Type.
- Ferrite bobbin core and compact size.
- Low core loss for high frequency power application.
- Large terminal surface for good PCB bonding.
- Operating temperature:-40℃ ~ +125℃.

### ■ Applications

- Portable communication equipment.
- Notebook PC,digital carmera,LCD television set.
- Power supply for VTR,OA equipment.
- DC/DC converters.

### ■ Product Identification

ZECD54YP □□□□ - □□□ □

(1) (2) (3) (4)

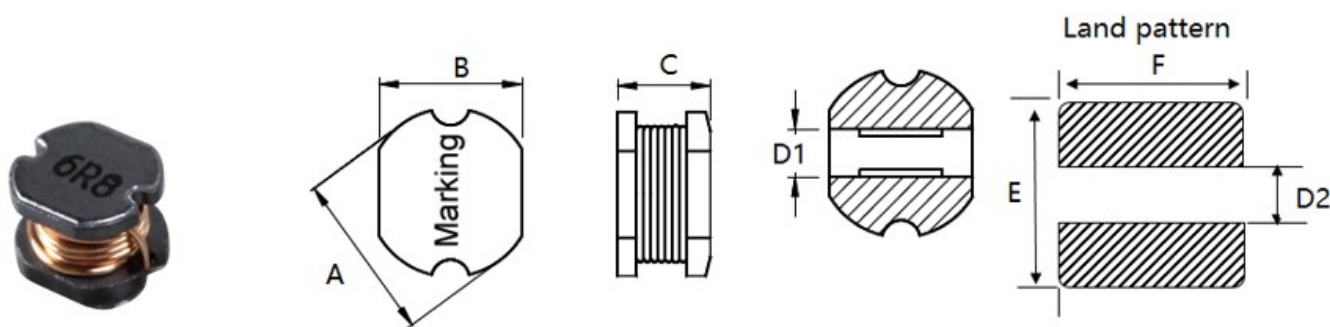
(1) : Type

(2) : Dimensions

(3) : Inductance value

(4): Inductance Tolerance: N=±30%,M=±20%, L=±15%, K=±10%

### ■ Shapes and Dimensions (Unit: mm)



| TYPE         | A       | B       | C       | D1 Ref. | D2 Ref. | E Ref. | F Ref. |
|--------------|---------|---------|---------|---------|---------|--------|--------|
| ZECD54YP0504 | 5.8±0.3 | 5.2±0.3 | 4.5±0.3 | 1.5     | 1.7     | 6.0    | 5.5    |



# SMD Power Inductors

## -ZECD54YP0504 Series

### ■ ZECD54YP0504 Series

| Part Number       | Inductance<br>(uH) | L Test Frequency<br>(KHz) | Max.DC Resistance<br>(Ω) | Max.Rated Current<br>(A) |
|-------------------|--------------------|---------------------------|--------------------------|--------------------------|
| ZECD54YP0504-1R0□ | 1.00               | 100                       | 0.015                    | 5.90                     |
| ZECD54YP0504-1R2□ | 1.20               | 100                       | 0.020                    | 5.80                     |
| ZECD54YP0504-1R5□ | 1.50               | 100                       | 0.025                    | 4.80                     |
| ZECD54YP0504-1R8□ | 1.80               | 100                       | 0.030                    | 4.40                     |
| ZECD54YP0504-2R2□ | 2.20               | 100                       | 0.035                    | 4.50                     |
| ZECD54YP0504-2R7□ | 2.70               | 100                       | 0.040                    | 3.50                     |
| ZECD54YP0504-3R3□ | 3.30               | 100                       | 0.045                    | 3.50                     |
| ZECD54YP0504-3R9□ | 3.90               | 100                       | 0.050                    | 2.90                     |
| ZECD54YP0504-4R7□ | 4.70               | 100                       | 0.060                    | 2.80                     |
| ZECD54YP0504-5R6□ | 5.60               | 100                       | 0.070                    | 2.50                     |
| ZECD54YP0504-6R8□ | 6.80               | 100                       | 0.080                    | 2.50                     |
| ZECD54YP0504-8R2□ | 8.20               | 100                       | 0.090                    | 2.00                     |
| ZECD54YP0504-100□ | 10.0               | 100                       | 0.100                    | 1.50                     |
| ZECD54YP0504-120□ | 12.0               | 100                       | 0.120                    | 1.40                     |
| ZECD54YP0504-150□ | 15.0               | 100                       | 0.140                    | 1.40                     |
| ZECD54YP0504-180□ | 18.0               | 100                       | 0.150                    | 1.23                     |
| ZECD54YP0504-220□ | 22.0               | 100                       | 0.180                    | 1.20                     |
| ZECD54YP0504-270□ | 27.0               | 100                       | 0.200                    | 0.98                     |
| ZECD54YP0504-330□ | 33.0               | 100                       | 0.230                    | 0.90                     |
| ZECD54YP0504-390□ | 39.0               | 100                       | 0.320                    | 0.80                     |
| ZECD54YP0504-470□ | 47.0               | 100                       | 0.370                    | 0.75                     |
| ZECD54YP0504-560□ | 56.0               | 100                       | 0.420                    | 0.68                     |
| ZECD54YP0504-680□ | 68.0               | 100                       | 0.460                    | 0.65                     |



## SMD Power Inductors -ZECD54YP0504 Series

### ■ ZECD54YP0504 Series

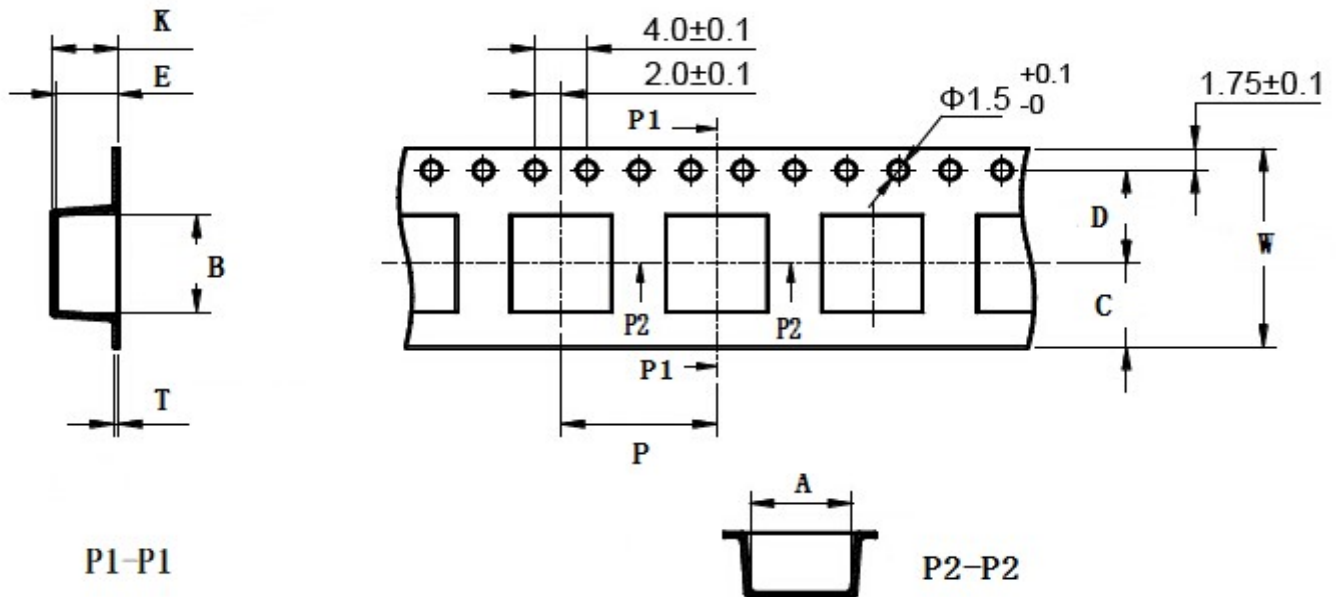
| Part Number       | Inductance<br>(uH) | L Test Frequency<br>(KHz) | Max.DC Resistance<br>(Ω) | Max.Rated Current<br>(A) |
|-------------------|--------------------|---------------------------|--------------------------|--------------------------|
| ZECD54YP0504-820□ | 82.0               | 100                       | 0.600                    | 0.58                     |
| ZECD54YP0504-101□ | 100                | 100                       | 0.700                    | 0.52                     |
| ZECD54YP0504-121□ | 120                | 100                       | 0.930                    | 0.50                     |
| ZECD54YP0504-151□ | 150                | 100                       | 1.100                    | 0.45                     |
| ZECD54YP0504-181□ | 180                | 100                       | 1.380                    | 0.40                     |
| ZECD54YP0504-221□ | 220                | 100                       | 1.570                    | 0.37                     |
| ZECD54YP0504-271□ | 270                | 100                       | 1.650                    | 0.35                     |
| ZECD54YP0504-331□ | 330                | 100                       | 1.700                    | 0.29                     |
| ZECD54YP0504-391□ | 390                | 100                       | 1.800                    | 0.29                     |
| ZECD54YP0504-471□ | 470                | 100                       | 2.300                    | 0.29                     |
| ZECD54YP0504-561□ | 560                | 100                       | 2.500                    | 0.22                     |
| ZECD54YP0504-681□ | 680                | 100                       | 3.000                    | 0.20                     |
| ZECD54YP0504-821□ | 820                | 100                       | 4.500                    | 0.16                     |
| ZECD54YP0504-102□ | 1000               | 100                       | 4.800                    | 0.16                     |

- ※ The saturation current value is the DC current value having inductance decrease down to 30%.(at 20℃)
- ※ The temperature rise current value is the DC current value having temperature increase up to 40℃. (at 20℃)
- ※ The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.



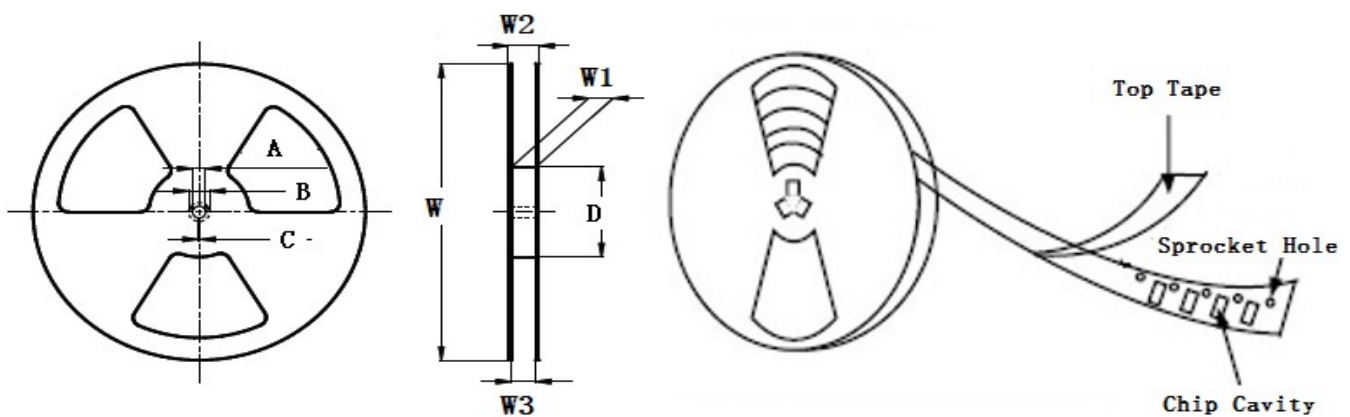
## SMD Power Inductors -ZEYP0504 Series

### Taping Dimensions(Unit:mm)



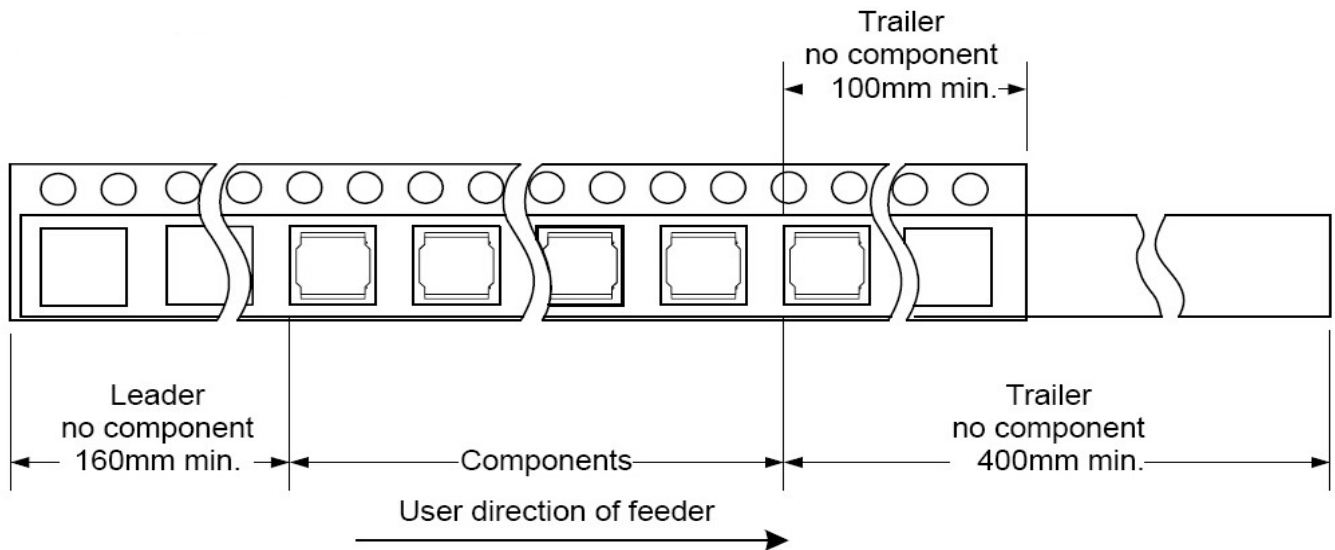
| TYPE         | W      | A        | B        | C    | D       | E        | P       | K<br>Ref | T         | MPQ  |
|--------------|--------|----------|----------|------|---------|----------|---------|----------|-----------|------|
| ZECD54YP0504 | 12±0.3 | 5.20±0.1 | 6.40±0.1 | 4.75 | 5.5±0.1 | 4.55±0.1 | 8.0±0.1 | 4.75     | 0.40±0.05 | 1500 |

### Reel Dimensions(Unit:mm)

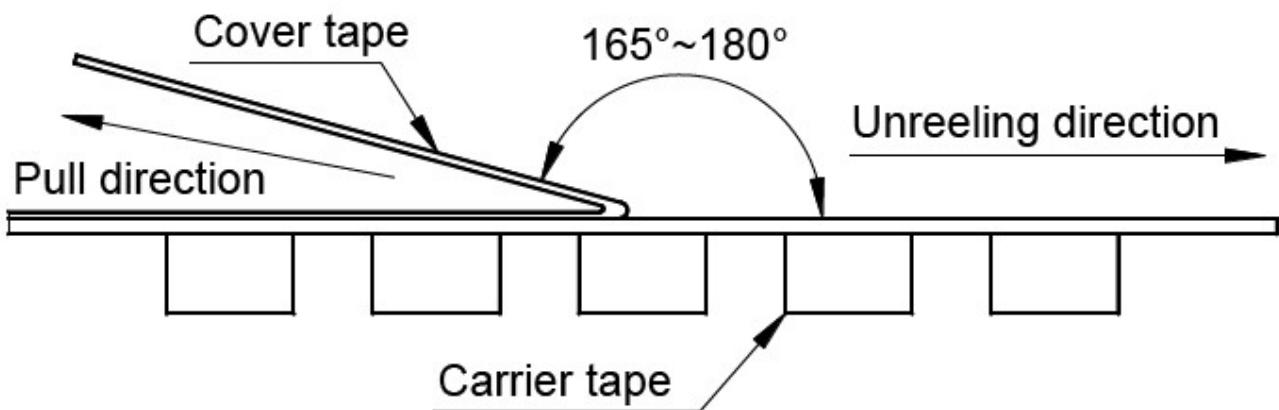


| TYPE         | W       | W1        | W2      | W3       | A         | B         | C        | D       |
|--------------|---------|-----------|---------|----------|-----------|-----------|----------|---------|
| ZECD54YP0504 | 330±2.0 | 12.8±1.50 | 18.4MAX | 11.9 Min | 13.0±0.50 | 21.0±0.80 | 2.0±0.50 | 100 Min |

### ■ Direction of rolling



### ■ Cover tape peel off condition



Cover tape peel force shall be 0.1N to 1.3N.

Reference peel speed  $300 \pm 10$  mm/min.