



## 零件承认书

SPECIFICATION FOR APPROVAL

客户名称：0001

规格描述：ZECD功率电感系列规格书

日期：2024/08/10

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：

2024/08/10

版本：

A





## ZECD Power Inductors 功率电感系列



### ■ Features

- 1.Excellent solderability and high heat resistance.
- 2.Excellent terminal strength construction.
- 3.Packed in embossed carrier tape and can be used by automatic mounting machine.

### ● 特征

- 1.絕佳的焊錫性及高溫耐熱性。
- 2.絕佳的端面強度結構。
- 3.捲軸包裝，可用於自動插件機器。

### ■ Applications

Power supply for VCR,OA equipment ,LCD television set, notebook, DC to DC converters, DC to AC inverters etc.

### ● 用途

VCR、辦公室自動設備、液晶電視機、筆記型電腦、直流-直流整流器、直流-交流換流器等的電源供應器。

### ■ Lead Free Part Numbering



A.Series

B.Dimension A x C

C.Inductance 1R0=1.0uH,100=10uH,101=100uH

D.Inductance Tolerance K=±10%,M=±20%

### ■ Dimensions



| Series  | A        | B       | C       | D ref |
|---------|----------|---------|---------|-------|
| ZECD31  | 3.5±0.3  | 3.0±0.3 | 1.6±0.3 | 1.0   |
| ZECD32  | 3.5±0.3  | 3.0±0.3 | 2.1±0.3 | 1.0   |
| ZECD42  | 4.5±0.3  | 4.0±0.3 | 2.0±0.3 | 1.4   |
| ZECD43  | 4.5±0.3  | 4.0±0.3 | 3.2±0.3 | 1.4   |
| ZECD52  | 5.8±0.3  | 5.2±0.3 | 2.0±0.3 | 1.6   |
| ZECD53  | 5.8±0.3  | 5.2±0.3 | 3.0±0.3 | 1.6   |
| ZECD54  | 5.8±0.3  | 5.2±0.3 | 4.5±0.3 | 1.6   |
| ZECD73  | 7.8±0.3  | 7.0±0.3 | 3.5±0.3 | 2.4   |
| ZECD75  | 7.8±0.3  | 7.0±0.3 | 5.0±0.3 | 2.4   |
| ZECD104 | 10.0±0.3 | 9.0±0.3 | 4.0±0.3 | 3.1   |
| ZECD105 | 10.0±0.3 | 9.0±0.3 | 5.4±0.3 | 3.1   |

### ■ZECD32 Series

| Part Number | Inductance<br>(uH) | Test Frequency<br>(Hz) | DCR<br>( $\Omega$ )max | IDC<br>(A)max |
|-------------|--------------------|------------------------|------------------------|---------------|
| ZECD32-1R5M | 1.5±20%            | 100K/0.25V             | 0.07                   | 2.0           |
| ZECD32-391K | 390±10%            | 100K/0.25V             | 7.8                    | 0.12          |

### ■ZECD42 Series

| Part Number | Inductance<br>(uH) | Test Frequency<br>(Hz) | DCR<br>( $\Omega$ )max | IDC<br>(A)max |
|-------------|--------------------|------------------------|------------------------|---------------|
| ZECD42-1R0M | 1.0±20%            | 100K/0.25V             | 0.035                  | 2.70          |
| ZECD42-2R2M | 2.2±20%            | 100K/0.25V             | 0.060                  | 1.90          |
| ZECD42-3R3M | 3.3±20%            | 100K/0.25V             | 0.080                  | 1.55          |
| ZECD42-6R8M | 6.8±20%            | 100K/0.25V             | 0.135                  | 1.10          |
| ZECD42-150M | 15±20%             | 100K/0.25V             | 0.330                  | 0.75          |
| ZECD42-680M | 68±20%             | 100K/0.25V             | 1.350                  | 0.32          |

## ■ZECD43 Series

| Part Number | Inductance<br>(uH) | Test Freqency<br>(Hz) | DCR<br>( $\Omega$ )max | IDC<br>(A)max |
|-------------|--------------------|-----------------------|------------------------|---------------|
| ZECD43-1R5M | 1.5±20%            | 100K/0.25V            | 0.038                  | 3.30          |
| ZECD43-1R8M | 1.8±20%            | 100K/0.25V            | 0.042                  | 2.92          |
| ZECD43-5R6M | 5.6±20%            | 100K/0.25V            | 0.101                  | 1.60          |
| ZECD43-471K | 470±10%            | 100K/0.25V            | 6.20                   | 0.21          |
| ZECD43-681K | 680±10%            | 100K/0.25V            | 9.10                   | 0.18          |
| ZECD43-102K | 1000±10%           | 100K/0.25V            | 15.0                   | 0.14          |
| ZECD43-152K | 1500±10%           | 100K/0.25V            | 15.0                   | 0.05          |
| ZECD43-182K | 1800±10%           | 100K/0.25V            | 16.0                   | 0.04          |

## ■ZECD53 Series

| Part Number | Inductance<br>(uH) | Test Freqeuncy<br>(Hz) | DCR<br>( $\Omega$ )max | IDC<br>(A)max |
|-------------|--------------------|------------------------|------------------------|---------------|
| ZECD53-1R5M | 1.5 $\pm$ 20%      | 100K/0.25V             | 0.040                  | 4.0           |
| ZECD53-471K | 470 $\pm$ 10%      | 1K/0.25V               | 4.50                   | 0.21          |
| ZECD53-102K | 1000 $\pm$ 10%     | 1K/0.25V               | 4.80                   | 0.12          |

## ■ZECD54 Series

| Part Number | Inductance<br>( $\mu$ H) | Test Frequency<br>(Hz) | DCR<br>( $\Omega$ )max | IDC<br>(A)max |
|-------------|--------------------------|------------------------|------------------------|---------------|
| ZECD54-5R6M | 5.6 $\pm$ 20%            | 100K/0.25V             | 0.070                  | 2.4           |
| ZECD54-8R2M | 8.2 $\pm$ 20%            | 100K/0.25V             | 0.090                  | 2.0           |
| ZECD54-331K | 330 $\pm$ 10%            | 1K/0.25V               | 1.70                   | 0.28          |
| ZECD54-471K | 470 $\pm$ 10%            | 1K/0.25V               | 2.30                   | 0.23          |
| ZECD54-561K | 560 $\pm$ 10%            | 1K/0.25V               | 2.50                   | 0.20          |
| ZECD54-681K | 680 $\pm$ 10%            | 1K/0.25V               | 3.0                    | 0.19          |
| ZECD54-821K | 820 $\pm$ 10%            | 1K/0.25V               | 4.50                   | 0.16          |
| ZECD54-102K | 1000 $\pm$ 10%           | 1K/0.25V               | 4.80                   | 0.15          |
| ZECD54-152K | 1500 $\pm$ 10%           | 1K/0.25V               | 6.10                   | 0.16          |
| ZECD54-222K | 2200 $\pm$ 10%           | 1K/0.25V               | 7.40                   | 0.07          |
| ZECD54-103K | 10000 $\pm$ 10%          | 1K/0.25V               | 65.5                   | 0.10          |
| ZECD54-182K | 1800 $\pm$ 10%           | 1K/0.25V               | 11.10                  | 0.16          |
| ZECD54-202K | 2000 $\pm$ 10%           | 1K/0.25V               | 12.00                  | 0.14          |

## ■ZECD75 Series

| Part Number | Inductance<br>(uH) | Test Freqency<br>(Hz) | DCR<br>( $\Omega$ )max | IDC<br>(A)max |
|-------------|--------------------|-----------------------|------------------------|---------------|
| ZECD75-8R2M | 8.2 $\pm$ 20%      | 100K/0.25V            | 0.04                   | 2.5           |
| ZECD75-681K | 680 $\pm$ 10%      | 1K/0.25V              | 3.40                   | 0.3           |
| ZECD75-821K | 820 $\pm$ 10%      | 1K/0.25V              | 4.80                   | 0.28          |
| ZECD75-102K | 1000 $\pm$ 10%     | 1K/0.25V              | 5.20                   | 0.24          |
| ZECD75-152K | 1500 $\pm$ 10%     | 1K/0.25V              | 6.40                   | 0.19          |
| ZECD75-222K | 2200 $\pm$ 10%     | 1K/0.25V              | 7.85                   | 0.15          |
| ZECD75-332K | 3300 $\pm$ 10%     | 1K/0.25V              | 8.20                   | 0.12          |
| ZECD75-103K | 10000 $\pm$ 10%    | 1K/0.25V              | 32.0                   | 0.155         |

## ■ZECD105 Series

| Part Number  | Inductance<br>( $\mu$ H) | Test Frequency<br>(Hz) | DCR<br>( $\Omega$ )max | IDC<br>(A)max |
|--------------|--------------------------|------------------------|------------------------|---------------|
| ZECD105-102K | 1000 $\pm$ 10%           | 1K/0.25V               | 3.70                   | 0.24          |
| ZECD105-103K | 10000 $\pm$ 10%          | 1K/0.25V               | 24.5                   | 0.175         |

- \* The maximum rated current is a DC current which causes initial inductance to decrease by 25% or temperature to rise by 40°C, whichever is smaller (at ambient reference temperature: 20 °C).
- \* Operating Temperature: -40°C to +125°C.