

零件承认书

SPECIFICATION FOR APPROVAL

客户名称：0001

规格描述：ZCD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



东莞市增益实业有限公司

地址：东莞市塘厦镇林村塘厦大道北552号

电话：0769-87321000

传真：0769-87891229

物料类型：

功率电感

日期：

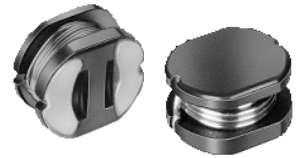
2024/08/10

版本：

A



ZCD 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。

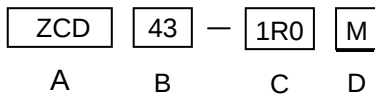
■ Applications

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

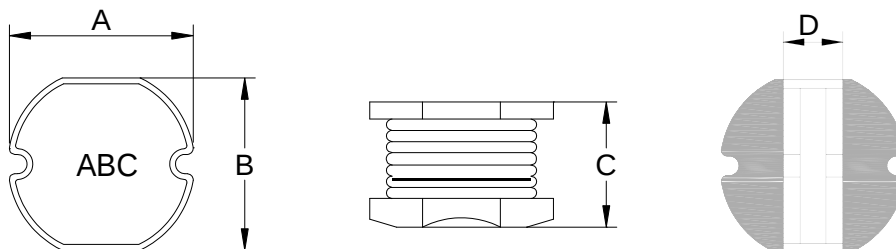
C.Inductance

1R0=1.0uH,100=10uH,101=100uH

D.Inductance Tolerance

K=±10%,M=±20%

■ Dimensions



Series	A	B	C	D ref
ZCD31	3.5±0.3	3.0±0.3	1.6±0.3	1.0
ZCD32	3.5±0.3	3.0±0.3	2.1±0.3	1.0
ZCD42	4.5±0.3	4.0±0.3	2.0±0.3	1.4
ZCD43	4.5±0.3	4.0±0.3	3.2±0.3	1.4
ZCD52	5.8±0.3	5.2±0.3	2.0±0.3	1.6
ZCD53	5.8±0.3	5.2±0.3	3.0±0.3	1.6
ZCD54	5.8±0.3	5.2±0.3	4.5±0.3	1.6
ZCD73	7.8±0.3	7.0±0.3	3.5±0.3	2.4
ZCD75	7.8±0.3	7.0±0.3	5.0±0.3	2.4
ZCD104	10.0±0.3	9.0±0.3	4.0±0.3	3.1
ZCD105	10.0±0.3	9.0±0.3	5.4±0.3	3.1

■ZCD52 Series

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (Ω)max	IDC (A)max
ZCD52-1R0M	1.0 $\pm$ 20%	100K/0.25V	0.05	4.2
ZCD52-2R2M	2.2 $\pm$ 20%	100K/0.25V	0.08	3.2
ZCD52-3R3M	3.3 $\pm$ 20%	100K/0.25V	0.12	2.4
ZCD52-3R9M	3.9 $\pm$ 20%	100K/0.25V	0.14	2.0
ZCD52-4R7M	4.7 $\pm$ 20%	100K/0.25V	0.15	1.8
ZCD52-5R6M	5.6 $\pm$ 20%	100K/0.25V	0.16	1.5
ZCD52-6R8M	6.8 $\pm$ 20%	100K/0.25V	0.17	1.4
ZCD52-8R2M	8.2 $\pm$ 20%	100K/0.25V	0.20	1.3
ZCD52-100M	10 $\pm$ 20%	1K/0.25V	0.23	1.1
ZCD52-120M	12 $\pm$ 20%	1K/0.25V	0.25	1.05
ZCD52-150M	15 $\pm$ 20%	1K/0.25V	0.30	1.00
ZCD52-180M	18 $\pm$ 20%	1K/0.25V	0.35	0.90
ZCD52-220M	22 $\pm$ 20%	1K/0.25V	0.40	0.85
ZCD52-270M	27 $\pm$ 20%	1K/0.25V	0.50	0.75
ZCD52-330M	33 $\pm$ 20%	1K/0.25V	0.55	0.70
ZCD52-390M	39 $\pm$ 20%	1K/0.25V	0.65	0.60
ZCD52-470M	47 $\pm$ 20%	1K/0.25V	0.75	0.55
ZCD52-560M	56 $\pm$ 20%	1K/0.25V	0.95	0.50

■ZECD52 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω)max	IDC (A)max
ZCD52-680M	68±20%	1K/0.25V	1.20	0.45
ZCD52-820M	82±20%	1K/0.25V	1.40	0.40
ZCD52-101M	100±20%	1K/0.25V	1.75	0.35
ZCD52-121M	120±20%	1K/0.25V	2.0	0.25
ZCD52-151M	150±20%	1K/0.25V	2.6	0.22
ZCD52-181M	180±20%	1K/0.25V	3.7	0.18
ZCD52-221M	220±20%	1K/0.25V	4.0	0.19
ZCD52-271M	270±20%	1K/0.25V	4.2	0.20

■ZECD53 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω)max	IDC (A)max
ZECD53-1R0M	1.0±20%	100K/0.25V	0.038	4.5
ZECD53-2R2M	2.2±20%	100K/0.25V	0.045	3.5
ZECD53-3R3M	3.3±20%	100K/0.25V	0.055	2.8
ZECD53-3R9M	3.9±20%	100K/0.25V	0.064	2.6
ZECD53-4R7M	4.7±20%	100K/0.25V	0.072	2.5
ZECD53-5R6M	5.6±20%	100K/0.25V	0.084	2.4
ZECD53-6R8M	6.8±20%	100K/0.25V	0.09	2.2
ZECD53-8R2M	8.2±20%	100K/0.25V	0.10	2.0
ZECD53-100K	10±10%	1K/0.25V	0.12	1.8
ZECD53-120K	12±10%	1K/0.25V	0.13	1.8
ZECD53-150K	15±10%	1K/0.25V	0.15	1.7
ZECD53-180K	18±10%	1K/0.25V	0.18	1.6
ZECD53-220K	22±10%	1K/0.25V	0.22	1.5
ZECD53-270K	27±10%	1K/0.25V	0.24	1.4
ZECD53-330K	33±10%	1K/0.25V	0.30	1.1
ZECD53-390K	39±10%	1K/0.25V	0.40	1.0
ZECD53-470K	47±10%	1K/0.25V	0.43	1.0
ZECD53-560K	56±10%	1K/0.25V	0.5	0.85
ZECD53-680K	68±10%	1K/0.25V	0.6	0.80
ZECD53-820K	82±10%	1K/0.25V	0.8	0.65
ZECD53-101K	100±10%	1K/0.25V	0.9	0.63
ZECD53-121K	120±10%	1K/0.25V	1.0	0.58
ZECD53-151K	150±10%	1K/0.25V	1.3	0.48
ZECD53-181K	180±10%	1K/0.25V	1.5	0.41
ZECD53-221K	220±10%	1K/0.25V	2.0	0.38
ZECD53-271K	270±10%	1K/0.25V	2.5	0.35
ZECD53-331K	330±10%	1K/0.25V	3.2	0.28

* 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.