

# SPECIFICATION FOR APPROVAL

**RoHS  
COMPLIANT**



**Product Series Code**

**CD - Series**

**SMD Drum Core Power Choke**

## Features

- High energy storage and low DCR.
- Wide range inductance(from low inductance to high inductance in large current.)
- All series of product are RoHS compliant.

## Applications

- Ideal for power source circuits, DC-DC converters, AC-DC inverters.

## Product Identification

**CD    32    -    100    M**  
1            2            3            4

1.Product Code:

CD = Hung Tron Code.

3. Inductance Code:

100 = 10uH.

2.Dimension Code:

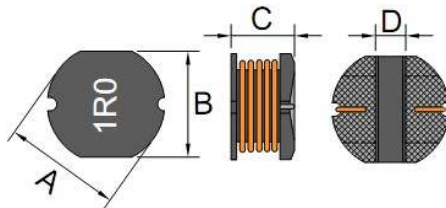
32 = 3.5 \* 3.0 \* 2.0 mm.

4. Tolerance Code:

K = 10%.

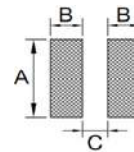
M = 20%

## Dimension (Unit: mm)



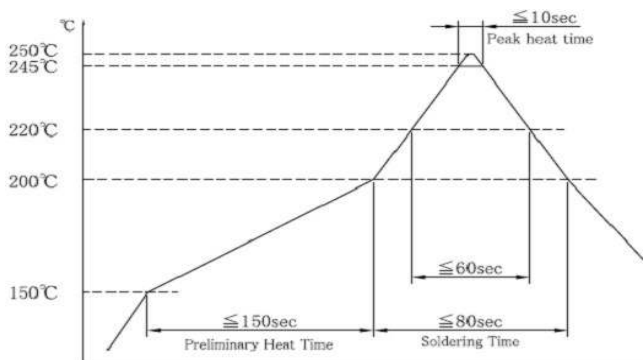
Type	(A±0.3)	(B±0.3)	(C±0.3)	D(Ref.)
CD31	3.50	3.00	1.60	1.00
CD32	3.50	3.00	2.10	1.00
CD43	4.50	4.00	3.20	1.20
CD52	5.80	5.20	2.50	1.30
CD53	5.80	5.20	3.20	1.30
CD54	5.80	5.20	4.50	1.30
CD73	7.80	7.00	3.50	2.10
CD75	7.80	7.00	5.00	2.10
CD104	10.00	9.00	4.20	2.10
CD105	10.00	9.00	5.50	2.10

## Land Pattern (Unit: mm)



Type	A(Ref.)	B(Ref.)	C(Ref.)
CD 31	3.50	1.10	1.50
CD 32	3.50	1.10	1.50
CD 43	4.50	1.75	1.50
CD 52	5.50	2.15	1.70
CD 53	5.50	2.15	1.70
CD 54	5.50	2.15	1.70
CD 73	7.50	3.00	2.00
CD 75	7.50	3.00	2.00
CD 104	9.50	3.50	2.50
CD 105	9.50	3.50	2.50

## Reflow Heat Endurance



## Operating & Storage Conditions

Operating Temp. : -40°C~+105°C.

Storage Temp. : -40°C~+85°C.

Storage life time : 12 months@25°C,RH65%.

## Standard & Atmospheric Conditions

Ambient Temp. : 20°C±15°C / Relative Humidity : 65±20%. If there may be any doubt on the result, measurement shall be made within the following limits :

Ambient Temp. : 25°C±5°C / Relative Humidity : 75±10%.

## Test Equipment

HP4284A, HOKIO3532-50- IDC, L.

TH2512B -RDC.

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## ELECTRICAL CHARACTERISTICS FOR CD31 SERIES

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (Hz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
CD31-2R2M	2.20	1M	0.10	0.79
CD31-4R7M	4.70	1M	0.15	0.65
CD31-100M	10.00	1M	0.30	0.45
CD31-150M	15.00	1M	0.58	0.30
CD31-220M	22.00	1M	0.71	0.25
CD31-330M	33.00	1M	1.10	0.20
CD31-470M	47.00	1M	1.30	0.17
CD31-680M	68.00	1M	2.20	0.13
CD31-101M	100.00	1M	3.50	0.10

## ELECTRICAL CHARACTERISTICS FOR CD32 SERIES

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
CD32-1R0M	1.00	100	0.045	2.20
CD32-1R2M	1.20	100	0.050	2.10
CD32-1R5M	1.50	100	0.055	1.70
CD32-1R8M	1.80	100	0.070	1.65
CD32-2R2M	2.20	100	0.085	1.60
CD32-2R7M	2.70	100	0.100	1.40
CD32-3R3M	3.30	100	0.120	1.05
CD32-3R9M	3.90	100	0.125	1.00
CD32-4R7M	4.70	100	0.135	1.00
CD32-5R6M	5.60	100	0.145	0.95
CD32-6R8M	6.80	100	0.200	0.95
CD32-8R2M	8.20	100	0.250	0.92
CD32-100K	10.00	100	0.320	0.90
CD32-120K	12.00	100	0.350	0.85
CD32-150K	15.00	100	0.460	0.75
CD32-180K	18.00	100	0.520	0.70
CD32-220K	22.00	100	0.650	0.60
CD32-270K	27.00	100	0.750	0.55
CD32-330K	33.00	100	0.920	0.50
CD32-390K	39.00	100	1.000	0.48
CD32-470K	47.00	100	1.150	0.45
CD32-560K	56.00	100	1.500	0.30
CD32-680K	68.00	100	2.000	0.26
CD32-820K	82.00	100	2.150	0.23
CD32-101K	100.00	100	2.500	0.20
CD32-121K	120.00	100	3.400	0.18

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Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
CD32-151K	150.00	100	4.200	0.16
CD32-181K	180.00	100	4.500	0.15
CD32-221K	220.00	100	5.100	0.14
CD32-271K	270.00	100	8.500	0.10
CD32-331K	330.00	100	9.500	0.09

## ELECTRICAL CHARACTERISTICS FOR CD43 SERIES

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (Hz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
CD43-1R0M	1.00	7.96 M	0.033	3.80
CD43-1R4M	1.40	7.96 M	0.038	3.30
CD43-1R8M	1.80	7.96 M	0.042	2.91
CD43-2R2M	2.20	7.96 M	0.047	2.60
CD43-2R7M	2.70	7.96 M	0.052	2.43
CD43-3R3M	3.30	7.96 M	0.058	2.15
CD43-3R9M	3.90	7.96 M	0.076	1.98
CD43-4R7M	4.70	7.96 M	0.094	1.70
CD43-5R6M	5.60	7.96 M	0.101	1.60
CD43-6R8M	6.80	7.96 M	0.117	1.41
CD43-8R2M	8.20	7.96 M	0.132	1.26
CD43-100K	10.00	2.52 M	0.182	1.15
CD43-120K	12.00	2.52 M	0.210	1.05
CD43-150K	15.00	2.52 M	0.235	0.92
CD43-180K	18.00	2.52 M	0.338	0.84
CD43-220K	22.00	2.52 M	0.378	0.76
CD43-270K	27.00	2.52 M	0.522	0.71
CD43-330K	33.00	2.52 M	0.540	0.64
CD43-390K	39.00	2.52 M	0.587	0.59
CD43-470K	47.00	2.52 M	0.844	0.54
CD43-560K	56.00	2.52 M	0.937	0.50
CD43-680K	68.00	2.52 M	1.117	0.46
CD43-820K	82.00	1 K	1.345	0.45
CD43-101K	100.00	1 K	1.520	0.44
CD43-121K	120.00	1 K	1.800	0.43
CD43-151K	150.00	1 K	2.000	0.42
CD43-181K	180.00	1 K	3.200	0.38
CD43-221K	220.00	1 K	3.400	0.36
CD43-271K	270.00	1 K	3.900	0.34
CD43-331K	330.00	1 K	5.300	0.28
CD43-391K	390.00	1 K	5.900	0.24
CD43-471K	470.00	1 K	6.800	0.21
CD43-561K	560.00	1 K	8.500	0.20
CD43-681K	680.00	1 K	10.000	0.18
CD43-821K	820.00	1 K	13.400	0.15
CD43-102K	1000.00	1 K	15.600	0.14

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## ELECTRICAL CHARACTERISTICS FOR CD52 SERIES

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
CD52-1R2M	1.20	100	0.050	4.20
CD52-1R5M	1.50	100	0.060	4.00
CD52-1R8M	1.80	100	0.065	3.70
CD52-2R2M	2.20	100	0.070	3.50
CD52-2R7M	2.70	100	0.080	3.20
CD52-3R3M	3.30	100	0.100	2.70
CD52-3R9M	3.90	100	0.120	2.40
CD52-4R7M	4.70	100	0.140	2.00
CD52-5R6M	5.60	100	0.150	1.80
CD52-6R8M	6.80	100	0.160	1.50
CD52-8R2M	8.20	100	0.170	1.40
CD52-100K	10.00	100	0.200	1.30
CD52-120K	12.00	100	0.230	1.10
CD52-150K	15.00	100	0.250	1.05
CD52-180K	18.00	100	0.300	1.00
CD52-220K	22.00	100	0.350	0.90
CD52-270K	27.00	100	0.400	0.85
CD52-330K	33.00	100	0.500	0.75
CD52-390K	39.00	100	0.550	0.70
CD52-470K	47.00	100	0.650	0.60
CD52-560K	56.00	100	0.750	0.55
CD52-680K	68.00	100	0.950	0.50
CD52-820K	82.00	100	1.200	0.45
CD52-101K	100.00	100	1.400	0.40
CD52-121K	120.00	100	1.750	0.35
CD52-151K	150.00	100	2.000	0.25
CD52-181K	180.00	100	2.600	0.22
CD52-221K	220.00	100	3.000	0.20
CD52-271K	270.00	100	3.700	0.18
CD52-331K	330.00	100	4.300	0.17
CD52-391K	390.00	100	6.000	0.16
CD52-471K	470.00	100	6.700	0.15

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## ELECTRICAL CHARACTERISTICS FOR CD53 SERIES

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (Hz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
CD53-1R0M	1.00	7.96 M	0.030	4.50
CD53-1R2M	1.20	7.96 M	0.030	4.20
CD53-1R5M	1.50	7.96 M	0.030	4.10
CD53-1R8M	1.80	7.96 M	0.030	3.70
CD53-2R2M	2.20	7.96 M	0.030	3.50
CD53-2R7M	2.70	7.96 M	0.040	3.20
CD53-3R3M	3.30	7.96 M	0.050	2.80
CD53-3R9M	3.90	7.96 M	0.060	2.60
CD53-4R7M	4.70	7.96 M	0.070	2.50
CD53-5R6M	5.60	7.96 M	0.080	2.40
CD53-6R8M	6.80	7.96 M	0.090	2.20
CD53-8R2M	8.20	7.96 M	0.100	2.00
CD53-100K	10.00	2.52 M	0.120	1.80
CD53-120K	12.00	2.52 M	0.130	1.75
CD53-150K	15.00	2.52 M	0.150	1.70
CD53-180K	18.00	2.52 M	0.180	1.60
CD53-220K	22.00	2.52 M	0.220	1.50
CD53-270K	27.00	2.52 M	0.240	1.40
CD53-330K	33.00	2.52 M	0.300	1.10
CD53-390K	39.00	2.52 M	0.400	1.00
CD53-470K	47.00	2.52 M	0.430	0.90
CD53-560K	56.00	2.52 M	0.500	0.85
CD53-680K	68.00	2.52 M	0.600	0.80
CD53-820K	82.00	2.52 M	0.800	0.65
CD53-101K	100.00	1 K	0.900	0.60
CD53-121K	120.00	1 K	1.000	0.58
CD53-151K	150.00	1 K	1.300	0.43
CD53-181K	180.00	1 K	1.500	0.41
CD53-221K	220.00	1 K	2.000	0.38
CD53-271K	270.00	1 K	2.500	0.35
CD53-331K	330.00	1 K	3.200	0.28
CD53-391K	390.00	1 K	3.500	0.26

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CD53-471K	470.00	1 K	4.200	0.20
CD53-561K	560.00	1 K	4.500	0.19
CD53-681K	680.00	1 K	6.000	0.18
CD53-821K	820.00	1 K	6.500	0.15
CD53-102K	1000.00	1 K	8.000	0.13

## ELECTRICAL CHARACTERISTICS FOR CD54 SERIES

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (Hz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
CD54-1R0M	1.00	7.96 M	0.015	5.90
CD54-1R2M	1.20	7.96 M	0.020	5.20
CD54-1R5M	1.50	7.96 M	0.025	4.70
CD54-1R8M	1.80	7.96 M	0.030	4.00
CD54-2R2M	2.20	7.96 M	0.035	3.80
CD54-2R7M	2.70	7.96 M	0.040	3.40
CD54-3R3M	3.30	7.96 M	0.045	3.30
CD54-3R9M	3.90	7.96 M	0.050	2.90
CD54-4R7M	4.70	7.96 M	0.060	2.80
CD54-5R6M	5.60	7.96 M	0.070	2.40
CD54-6R8M	6.80	7.96 M	0.080	2.10
CD54-8R2M	8.20	7.96 M	0.090	2.00
CD54-100K	10.00	2.52 M	0.100	1.44
CD54-120K	12.00	2.52 M	0.120	1.40
CD54-150K	15.00	2.52 M	0.140	1.30
CD54-180K	18.00	2.52 M	0.150	1.23
CD54-220K	22.00	2.52 M	0.180	1.11
CD54-270K	27.00	2.52 M	0.200	0.97
CD54-330K	33.00	2.52 M	0.230	0.88
CD54-390K	39.00	2.52 M	0.320	0.80
CD54-470K	47.00	2.52 M	0.370	0.72
CD54-560K	56.00	2.52 M	0.420	0.68
CD54-680K	68.00	2.52 M	0.460	0.61

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CD54-820K	82.00	2.52 M	0.600	0.58
CD54-101K	100.00	1 K	0.700	0.52
CD54-121K	120.00	1 K	0.930	0.48
CD54-151K	150.00	1 K	1.100	0.40
CD54-181K	180.00	1 K	1.380	0.38
CD54-221K	220.00	1 K	1.570	0.35
CD54-271K	270.00	1 K	1.650	0.32
CD54-331K	330.00	1 K	1.700	0.28
CD54-391K	390.00	1 K	1.800	0.26
CD54-471K	470.00	1 K	2.300	0.23
CD54-561K	560.00	1 K	2.500	0.20
CD54-681K	680.00	1 K	3.000	0.19
CD54-821K	820.00	1 K	4.500	0.16
CD54-102K	1000.00	1 K	4.800	0.14

## ELECTRICAL CHARACTERISTICS FOR CD73 SERIES

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (Hz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
CD73-100K	10.00	2.52 M	0.080	1.44
CD73-120K	12.00	2.52 M	0.090	1.39
CD73-150K	15.00	2.52 M	0.100	1.24
CD73-180K	18.00	2.52 M	0.110	1.12
CD73-220K	22.00	2.52 M	0.130	1.07
CD73-270K	27.00	2.52 M	0.150	0.94
CD73-330K	33.00	2.52 M	0.170	0.85
CD73-390K	39.00	2.52 M	0.220	0.74
CD73-470K	47.00	2.52 M	0.250	0.68
CD73-560K	56.00	2.52 M	0.280	0.64
CD73-680K	68.00	2.52 M	0.330	0.59
CD73-820K	82.00	2.52 M	0.410	0.54
CD73-101K	100.00	1 K	0.480	0.51
CD73-121K	120.00	1 K	0.540	0.49
CD73-151K	150.00	1 K	0.750	0.40
CD73-181K	180.00	1 K	1.020	0.36
CD73-221K	220.00	1 K	1.200	0.31
CD73-271K	270.00	1 K	1.310	0.29

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CD73-331K	330.00	1 K	1.500	0.28
CD73-391K	390.00	1 K	1.800	0.26
CD73-471K	470.00	1 K	1.950	0.23
CD73-561K	560.00	1 K	2.300	0.21
CD73-681K	680.00	1 K	2.700	0.13
CD73-821K	820.00	1 K	3.200	0.11
CD73-102K	1000.00	1 K	3.800	0.08

## ELECTRICAL CHARACTERISTICS FOR CD75 SERIES

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (Hz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
CD75-100K	10.00	2.52 M	0.070	2.30
CD75-120K	12.00	2.52 M	0.080	2.00
CD75-150K	15.00	2.52 M	0.090	1.80
CD75-180K	18.00	2.52 M	0.100	1.60
CD75-220K	22.00	2.52 M	0.110	1.50
CD75-270K	27.00	2.52 M	0.120	1.30
CD75-330K	33.00	2.52 M	0.130	1.20
CD75-390K	39.00	2.52 M	0.160	1.10
CD75-470K	47.00	2.52 M	0.180	1.10
CD75-560K	56.00	2.52 M	0.240	0.94
CD75-680K	68.00	2.52 M	0.280	0.85
CD75-820K	82.00	2.52 M	0.370	0.78
CD75-101K	100.00	1 K	0.430	0.72
CD75-121K	120.00	1 K	0.470	0.66
CD75-151K	150.00	1 K	0.640	0.58
CD75-181K	180.00	1 K	0.710	0.51
CD75-221K	220.00	1 K	0.960	0.49
CD75-271K	270.00	1 K	1.110	0.42
CD75-331K	330.00	1 K	1.260	0.40
CD75-391K	390.00	1 K	1.770	0.36
CD75-471K	470.00	1 K	1.960	0.34
CD75-561K	560.00	1 K	2.000	0.33
CD75-681K	680.00	1 K	2.200	0.32
CD75-821K	820.00	1 K	2.900	0.25
CD75-102K	1000.00	1 K	3.900	0.20



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## ELECTRICAL CHARACTERISTICS FOR CD104 SERIES

Part Number 產品料號	Inductance ( $\mu$ H) 電感值(L)	Test Freq. (Hz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
CD104-100K	10.00	2.52 M	0.053	2.38
CD104-120K	12.00	2.52 M	0.061	2.13
CD104-150K	15.00	2.52 M	0.070	1.87
CD104-180K	18.00	2.52 M	0.081	1.73
CD104-220K	22.00	2.52 M	0.088	1.60
CD104-270K	27.00	2.52 M	0.100	1.44
CD104-330K	33.00	2.52 M	0.120	1.26
CD104-390K	39.00	2.52 M	0.151	1.20
CD104-470K	47.00	2.52 M	0.170	1.10
CD104-560K	56.00	2.52 M	0.199	1.01
CD104-680K	68.00	2.52 M	0.223	0.91
CD104-820K	82.00	2.52 M	0.252	0.85
CD104-101K	100.00	1 K	0.344	0.74
CD104-121K	120.00	1 K	0.396	0.69
CD104-151K	150.00	1 K	0.544	0.61
CD104-181K	180.00	1 K	0.621	0.56
CD104-221K	220.00	1 K	0.721	0.53
CD104-271K	270.00	1 K	0.949	0.45
CD104-331K	330.00	1 K	1.100	0.42
CD104-391K	390.00	1 K	1.245	0.38
CD104-471K	470.00	1 K	1.526	0.35
CD104-561K	560.00	1 K	1.904	0.32
CD104-681K	680.00	1 K	2.200	0.31
CD104-821K	820.00	1 K	2.700	0.30
CD104-102K	1000.00	1 K	3.500	0.29

# SPECIFICATION FOR APPROVAL

RoHS  
COMPLIANT

Product Series Code

CD - Series

SMD Drum Core Power Choke



## ELECTRICAL CHARACTERISTICS FOR CD105 SERIES

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (Hz) 測試頻率	DCR ( $\Omega$ ) (max) 直流阻抗	IDC (A) (max) 定格電流
CD105-100K	10.00	2.52 M	0.060	2.60
CD105-120K	12.00	2.52 M	0.070	2.45
CD105-150K	15.00	2.52 M	0.080	2.27
CD105-180K	18.00	2.52 M	0.090	2.15
CD105-220K	22.00	2.52 M	0.100	1.95
CD105-270K	27.00	2.52 M	0.110	1.76
CD105-330K	33.00	2.52 M	0.120	1.50
CD105-390K	39.00	2.52 M	0.140	1.37
CD105-470K	47.00	2.52 M	0.170	1.28
CD105-560K	56.00	2.52 M	0.190	1.17
CD105-680K	68.00	2.52 M	0.220	1.11
CD105-820K	82.00	2.52 M	0.250	1.00
CD105-101K	100.00	1 K	0.350	0.97
CD105-121K	120.00	1 K	0.400	0.89
CD105-151K	150.00	1 K	0.470	0.78
CD105-181K	180.00	1 K	0.630	0.72
CD105-221K	220.00	1 K	0.730	0.66
CD105-271K	270.00	1 K	0.970	0.57
CD105-331K	330.00	1 K	1.150	0.52
CD105-391K	390.00	1 K	1.300	0.48
CD105-471K	470.00	1 K	1.480	0.42
CD105-561K	560.00	1 K	1.900	0.33
CD105-681K	680.00	1 K	2.250	0.28
CD105-821K	820.00	1 K	2.550	0.24
CD105-102K	1000.00	1 K	3.000	0.20
CD106-220K	22.00	2.52	0.075	2.0