



Features

- Open Magnetic circuit construction
- Compact and thin
- Put the electrode with ferrite core directly, a small surface area allow a high mounting density.

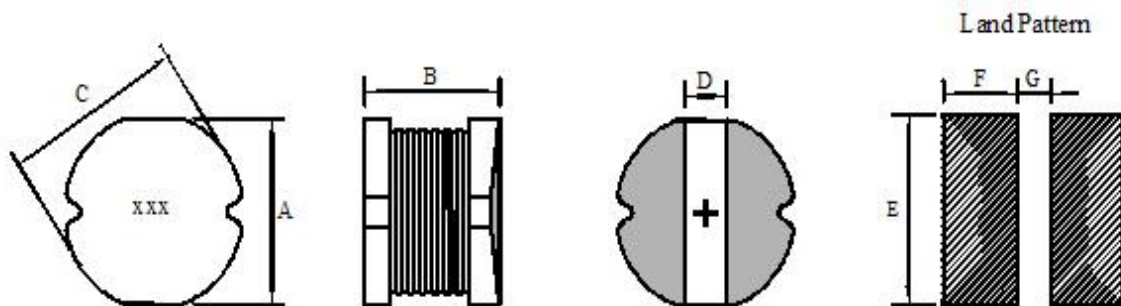
Application

- VTR, OA equipment, LCD television set, Notebook, portable communication equipments, DC/DC converters, etc..

Tolerance

- (K 10%, L 15%, M 20%)

Configurations & Dimensions



Dimensions

Chip Size

Units:mm

TYPE	A	B	C	D	E	F	G
HCD32	3.0±0.3	2.3±0.3	3.5±0.3	1.0Ref	3.5	1.5	1.0
HCD43	4.0±0.3	3.2±0.3	4.5±0.3	1.1Ref	0.5	2.0	1.0
HCD52	5.2±0.3	2.5±0.3	5.8±0.3	1.4Ref	5.7	2.55	1.2
HCD54	5.2±0.3	4.5±0.3	5.8±0.3	1.4Ref	5.7	2.55	1.2
HCD73	7.0±0.3	3.5±0.3	7.8±0.3	1.7Ref	7.5	3.4	1.5
HCD75	7.0±0.3	5.0±0.3	7.8±0.3	1.7Ref	7.5	3.4	1.5
HCD104	9.0±0.3	4.0±0.3	10.0±0.3	2.2Ref	9.5	4.25	2.0
HCD105	9.0±0.3	5.4±0.3	10.0±0.3	2.2Ref	9.5	4.25	2.0
HCD106	9.0±0.3	6.0±0.3	10.0±0.3	2.5Ref	9.5	4.25	2.0
HCD107	9.0±0.3	6.7±0.3	10.0±0.3	2.5Ref	9.5	4.25	2.0

Design as Customer's Requested Specifications.



Specifcatons HCD32

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (KHz)	DCR (Ω) max	Isat (A) max
HCD32-1R0M	1.0	20	0.1V/100	0.06	2.70
HCD32-1R2M	1.2	20	0.1V/100	0.07	2.50
HCD32-1R5M	1.5	20	0.1V/100	0.07	2.30
HCD32-1R8M	1.8	20	0.1V/100	0.08	2.00
HCD32-2R2M	2.2	20	0.1V/100	0.09	1.85
HCD32-2R7M	2.7	20	0.1V/100	0.10	1.70
HCD32-3R3M	3.3	20	0.1V/100	0.11	1.60
HCD32-3R9M	3.9	20	0.1V/100	0.12	1.50
HCD32-4R7M	4.7	20	0.1V/100	0.15	1.35
HCD32-5R6M	5.6	20	0.1V/100	0.16	1.30
HCD32-6R8M	6.8	20	0.1V/100	0.18	1.20
HCD32-8R2M	8.2	20	0.1V/100	0.20	1.05
HCD32-100M	10	20	0.1V/100	0.25	0.90
HCD32-120M	12	20	0.1V/100	0.28	0.85
HCD32-150M	15	20	0.1V/100	0.40	0.80
HCD32-180M	18	20	0.1V/100	0.46	0.75
HCD32-220M	22	20	0.1V/100	0.66	0.65
HCD32-270M	27	20	0.1V/100	0.75	0.55
HCD32-330M	33	20	0.1V/100	0.85	0.50
HCD32-390M	39	20	0.1V/100	1.12	0.45
HCD32-470M	47	20	0.1V/100	1.27	0.40
HCD32-560M	56	20	0.1V/100	1.45	0.35
HCD32-680M	68	20	0.1V/100	1.85	0.32
HCD32-820M	82	20	0.1V/100	2.10	0.30
HCD32-101M	100	20	0.1V/100	2.85	0.28
HCD32-121M	120	20	0.1V/100	3.20	0.25
HCD32-151M	150	20	0.1V/100	4.60	0.23
HCD32-181M	180	20	0.1V/100	5.00	0.21
HCD32-221M	220	20	0.1V/100	5.70	0.19
HCD32-271M	270	20	0.1V/100	8.60	0.17
HCD32-331M	330	20	0.1V/100	10.00	0.15
HCD32-391M	390	20	0.1V/100	10.80	0.14
HCD32-471M	470	20	0.1V/100	14.30	0.13
HCD32-561M	560	20	0.1V/100	16.00	0.12
HCD32-681M	680	20	0.1V/100	18.00	0.11
HCD32-821M	820	20	0.1V/100	22.50	0.10
HCD32-102M	1000	20	0.1V/100	26.00	0.09
HCD32-122M	1200	20	0.1V/100	30.00	0.08

Note: Isat:Based on inductance change ($\Delta L/L_0 \leq 10\%$)@ambient temp. 25°C



Specifcatons HCD43

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (KHz)	DCR (Ω) max	Isat (A) max
HCD43-1R0M	1.0	20	0.1V/100	0.0487	2.56
HCD43-1R4M	1.4	20	0.1V/100	0.0562	2.52
HCD43-1R8M	1.8	20	0.1V/100	0.0637	1.95
HCD43-2R2M	2.2	20	0.1V/100	0.0712	1.75
HCD43-2R7M	2.7	20	0.1V/100	0.0787	1.58
HCD43-3R3M	3.3	20	0.1V/100	0.0862	1.44
HCD43-3R9M	3.9	20	0.1V/100	0.0937	1.33
HCD43-5R6M	5.6	20	0.1V/100	0.1257	1.25
HCD43-6R8M	6.8	20	0.1V/100	0.1312	1.18
HCD43-8R2M	8.2	20	0.1V/100	0.1462	1.12
HCD43-100M	10	20	0.1V/100	0.182	1.04
HCD43-120M	12	20	0.1V/100	0.210	0.97
HCD43-150M	15	20	0.1V/100	0.235	0.85
HCD43-180M	18	20	0.1V/100	0.338	0.74
HCD43-220M	22	20	0.1V/100	0.378	0.68
HCD43-270M	27	20	0.1V/100	0.522	0.62
HCD43-330M	33	20	0.1V/100	0.540	0.56
HCD43-390M	39	20	0.1V/100	0.587	0.52
HCD43-470M	47	20	0.1V/100	0.844	0.44
HCD43-560M	56	20	0.1V/100	0.937	0.42
HCD43-680M	68	20	0.1V/100	1.117	0.37
HCD43-820M	82	20	0.1V/100	1.140	0.30
HCD43-880M	88	20	0.1V/100	1.160	0.30
HCD43-101M	100	20	0.1V/100	1.190	0.27
HCD43-151M	150	20	0.1V/100	1.800	0.21
HCD43-181M	180	20	0.1V/100	1.920	0.19
HCD43-221M	220	20	0.1V/100	2.030	0.180
HCD43-271M	270	20	0.1V/100	2.890	0.174
HCD43-331M	330	20	0.1V/100	3.760	0.168
HCD43-391M	390	20	0.1V/100	4.260	0.160
HCD43-471M	470	20	0.1V/100	5.140	0.158
HCD43-561M	560	20	0.1V/100	6.370	0.148
HCD43-681M	680	20	0.1V/100	9.240	0.128

Note: Isat: Based on inductance change ($\Delta L/L_0 \leq 10\%$) @ ambient temp. 25°C



Speciflcations HCD52

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (KHz)	DCR (Ω) max	Isat (A) max
HCD52-100M	10	20	0.1V/100	0.180	1.50
HCD52-120M	12	20	0.1V/100	0.200	1.40
HCD52-150M	15	20	0.1V/100	0.235	1.30
HCD52-180M	18	20	0.1V/100	0.280	1.23
HCD52-220M	22	20	0.1V/100	0.310	1.11
HCD52-270M	27	20	0.1V/100	0.380	0.97
HCD52-330M	33	20	0.1V/100	0.490	0.88
HCD52-390M	39	20	0.1V/100	0.530	0.80
HCD52-470M	47	20	0.1V/100	0.760	0.72
HCD52-560M	56	20	0.1V/100	0.830	0.68
HCD52-680M	68	20	0.1V/100	1.040	0.61
HCD52-820M	82	20	0.1V/100	1.170	0.58
HCD52-101M	100	20	0.1V/100	1.480	0.52
HCD52-121M	120	20	0.1V/100	1.970	0.48
HCD52-151M	150	20	0.1V/100	2.630	0.40
HCD52-181M	180	20	0.1V/100	3.000	0.38
HCD52-221M	220	20	0.1V/101	3.700	0.35

Note: Isat:Based on inductance change ($\Delta L/L_0 \leq 10\%$)@ambient temp. 25°C

Speciflcations HCD54

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (KHz)	DCR (Ω) max	Isat (A) max
HCD54-100M	10	20	0.1V/100	0.180	1.50
HCD54-120M	12	20	0.1V/100	0.200	1.40
HCD54-150M	15	20	0.1V/100	0.235	1.30
HCD54-180M	18	20	0.1V/100	0.280	1.23
HCD54-220M	22	20	0.1V/100	0.310	1.11
HCD54-270M	27	20	0.1V/100	0.380	0.97
HCD54-330M	33	20	0.1V/100	0.490	0.88
HCD54-390M	39	20	0.1V/100	0.530	0.80
HCD54-470M	47	20	0.1V/100	0.760	0.72
HCD54-560M	56	20	0.1V/100	0.830	0.68
HCD54-680M	68	20	0.1V/100	1.040	0.61
HCD54-820M	82	20	0.1V/100	1.170	0.58
HCD54-101M	100	20	0.1V/100	1.480	0.52
HCD54-121M	120	20	0.1V/100	1.970	0.48
HCD54-151M	150	20	0.1V/100	2.630	0.40
HCD54-181M	180	20	0.1V/100	3.000	0.38
HCD54-221M	220	20	0.1V/101	3.700	0.35
HCD54-271M	270	20	0.1V/100	2.630	0.40
HCD54-331M	330	20	0.1V/100	3.000	0.38
HCD54-471M	470	20	0.1V/101	3.700	0.35

Note: Isat:Based on inductance change ($\Delta L/L_0 \leq 10\%$)@ambient temp. 25°C



Specifcatons HCD73

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (KHz)	DCR (Ω) max	Isat (A) max
HCD73-4R7M	4.7	20	0.1V/100	0.0250	1.96
HCD73-5R6M	5.6	20	0.1V/100	0.0300	1.79
HCD73-8R2M	8.2	20	0.1V/100	0.0500	1.42
HCD73-100M	10.0	20	0.1V/100	0.0803	1.44
HCD73-120M	12	20	0.1V/100	0.0897	1.39
HCD73-150M	15	20	0.1V/100	0.1040	1.24
HCD73-180M	18.0	20	0.1V/100	0.1110	1.12
HCD73-220M	22	20	0.1V/100	0.1290	1.07
HCD73-270M	27	20	0.1V/100	0.1530	0.94
HCD73-330M	33	20	0.1V/100	0.1700	0.85
HCD73-390M	39	20	0.1V/100	0.217	0.74
HCD73-470M	47	20	0.1V/100	0.252	0.68
HCD73-560M	56	20	0.1V/100	0.282	0.64
HCD73-680M	68	20	0.1V/100	0.332	0.59
HCD73-820M	82	20	0.1V/100	0.406	0.54
HCD73-101M	100	20	0.1V/100	0.481	0.51
HCD73-121M	120	20	0.1V/100	0.536	0.49
HCD73-151M	150	20	0.1V/100	0.755	0.40
HCD73-181M	180	20	0.1V/100	1.022	0.36
HCD73-221M	220	20	0.1V/100	1.200	0.31
HCD73-271M	270	20	0.1V/100	1.306	0.29
HCD73-331M	330	20	0.1V/100	1.495	0.30

Note: Isat:Based on inductance change ($\Delta L/L_0 \leq 10\%$)@ambient temp. 25°C



Speciflcations HCD75

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (KHz)	DCR (Ω) max	Isat (A) max
HCD75-1R5M	1.5	20	0.1V/100	0.015	5.00
HCD75-5R6M	5.6	20	0.1V/100	0.025	3.00
HCD75-7R5M	7.5	20	0.1V/100	0.035	2.90
HCD75-8R2M	8.2	20	0.1V/100	0.036	2.80
HCD75-100M	10	20	0.1V/100	0.070	2.30
HCD75-120M	12	20	0.1V/100	0.080	2.00
HCD75-150M	15	20	0.1V/100	0.090	1.80
HCD75-180M	18	20	0.1V/100	0.100	1.60
HCD75-220M	22	20	0.1V/100	0.110	1.50
HCD75-270M	27	20	0.1V/100	0.120	1.30
HCD75-330M	33	20	0.1V/100	0.130	1.20
HCD75-390M	39	20	0.1V/100	0.160	1.10
HCD75-470M	47	20	0.1V/100	0.180	1.10
HCD75-560M	56	20	0.1V/100	0.240	0.94
HCD75-680M	68	20	0.1V/100	0.280	0.85
HCD75-820M	82	20	0.1V/100	0.370	0.78
HCD75-101M	100	20	0.1V/100	0.430	0.72
HCD75-121M	120	20	0.1V/100	0.470	0.66
HCD75-151M	150	20	0.1V/100	0.640	0.58
HCD75-181M	180	20	0.1V/100	0.710	0.51
HCD75-221M	220	20	0.1V/100	0.960	0.49
HCD75-271M	270	20	0.1V/100	1.110	0.42
HCD75-331M	330	20	0.1V/100	1.260	0.40
HCD75-391M	390	20	0.1V/100	1.770	0.36
HCD75-471M	470	20	0.1V/100	1.960	0.34
HCD75-561M	560	20	0.1V/100	2.280	0.32
HCD75-681M	680	20	0.1V/100	2.480	0.30
HCD75-821M	820	20	0.1V/100	3.400	0.30
HCD75-102M	1000	20	0.1V/100	4.200	0.30

Note: Isat:Based on inductance change ($\Delta L/L0 \leq 10\%$)@ambient temp. 25°C



Speciflcations HCD104

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (KHz)	DCR (Ω) max	Isat (A) max
HCD104-100M	10	20	0.1V/100	0.053	2.38
HCD104-120M	12	20	0.1V/100	0.061	2.13
HCD104-150M	15	20	0.1V/100	0.070	1.87
HCD104-180M	18	20	0.1V/100	0.081	1.73
HCD104-220M	22	20	0.1V/100	0.088	1.60
HCD104-270M	27	20	0.1V/100	0.100	1.44
HCD104-330M	33	20	0.1V/100	0.120	1.26
HCD104-390M	39	20	0.1V/100	0.151	1.20
HCD104-470M	47	20	0.1V/100	0.170	1.10
HCD104-560M	56	20	0.1V/100	0.199	1.01
HCD104-680M	68	20	0.1V/100	0.223	0.91
HCD104-820M	82	20	0.1V/100	0.252	0.85
HCD104-101M	100	20	0.1V/100	0.344	0.74
HCD104-121M	120	20	0.1V/100	0.396	0.69
HCD104-151M	150	20	0.1V/100	0.544	0.61
HCD104-181M	180	20	0.1V/100	0.621	0.56
HCD104-221M	220	20	0.1V/100	0.721	0.53
HCD104-271M	270	20	0.1V/100	0.949	0.45
HCD104-331M	330	20	0.1V/100	1.100	0.42
HCD104-391M	390	20	0.1V/100	1.245	0.38
HCD104-471M	470	20	0.1V/100	1.526	0.35
HCD104-561M	560	20	0.1V/100	1.904	0.32

Note: Isat:Based on inductance change ($\Delta L/L_0 \leq 10\%$)@ambient temp. 25°C



Speciflcations HCD105

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (KHz)	DCR (Ω) max	Isat (A) max
HCD105-3R3M	3.3	20	0.1V/100	0.018	5.00
HCD105-3R9M	3.9	20	0.1V/100	0.020	4.00
HCD105-5R6M	5.6	20	0.1V/100	0.025	3.30
HCD105-6R8M	6.8	20	0.1V/100	0.035	3.00
HCD105-8R2M	8.2	20	0.1V/100	0.028	2.80
HCD105-100M	10.0	20	0.1V/100	0.060	2.60
HCD105-120M	12	20	0.1V/100	0.070	2.45
HCD105-150M	15	20	0.1V/100	0.080	2.27
HCD105-180M	18	20	0.1V/100	0.090	2.15
HCD105-220M	22	20	0.1V/100	0.100	1.95
HCD105-270M	27	20	0.1V/100	0.110	1.76
HCD105-330M	33	20	0.1V/100	0.120	1.50
HCD105-390M	39	20	0.1V/100	0.140	1.37
HCD105-470M	47	20	0.1V/100	0.170	1.28
HCD105-560M	56	20	0.1V/100	0.190	1.17
HCD105-680M	68	20	0.1V/100	0.220	1.11
HCD105-820M	82	20	0.1V/100	0.250	1.00
HCD105-101M	100	20	0.1V/100	0.350	0.97
HCD105-121M	120	20	0.1V/100	0.400	0.89
HCD105-151M	150	20	0.1V/100	0.470	0.78
HCD105-181M	180	20	0.1V/100	0.630	0.72
HCD105-221M	220	20	0.1V/100	0.730	0.66
HCD105-271M	270	20	0.1V/100	0.970	0.57
HCD105-331M	330	20	0.1V/100	1.150	0.52
HCD105-391M	390	20	0.1V/100	1.300	0.48
HCD105-471M	470	20	0.1V/100	1.480	0.42
HCD105-561M	560	20	0.1V/100	1.900	0.33
HCD105-681M	680	20	0.1V/101	2.250	0.28
HCD105-821M	820	20	0.1V/102	2.550	0.24

Note: Isat:Based on inductance change ($\Delta L/L_0 \leq 10\%$)@ambient temp.25°C



Speciflcations HCD106

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (KHz)	DCR (Ω) max	Isat (A) max
HCD106-220M	22	20	0.1V/1	0.065	2.80
HCD106-270M	27	20	0.1V/1	0.120	2.30
HCD106-330M	33	20	0.1V/1	0.135	3.00
HCD106-390M	39	20	0.1V/1	0.160	3.00
HCD106-470M	47	20	0.1V/1	0.220	2.40
HCD106-680M	68	20	0.1V/1	0.500	2.00
HCD106-101M	100	20	0.1V/1	0.950	0.80
HCD106-402M	4000	20	0.1V/100	6.800	0.20
HCD106-442M	4400	20	0.1V/100	7.500	0.20

Note: Isat:Based on inductance change ($\Delta L/L_0 \leq 10\%$)@ambient temp. 25°C

Speciflcations HCD107

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (KHz)	DCR (Ω) max	Isat (A) max
HCD107-100M	10	20	0.1V/100	0.040	3.50
HCD107-120M	12	20	0.1V/100	0.050	3.40
HCD107-150M	15	20	0.1V/100	0.060	3.00
HCD107-180M	18	20	0.1V/100	0.070	2.80
HCD107-220M	22	20	0.1V/100	0.080	2.60
HCD107-270M	27	20	0.1V/100	0.090	2.40
HCD107-330M	33	20	0.1V/100	0.110	2.30
HCD107-390M	39	20	0.1V/100	0.120	2.10
HCD107-470M	47	20	0.1V/100	0.150	1.95
HCD107-560M	56	20	0.1V/100	0.200	1.85
HCD107-680M	68	20	0.1V/100	0.250	1.65
HCD107-820M	82	20	0.1V/100	0.280	1.50
HCD107-101M	100	20	0.1V/100	0.300	1.40
HCD107-121M	120	20	0.1V/1	0.350	1.30
HCD107-151M	150	20	0.1V/1	0.400	1.20
HCD107-181M	180	20	0.1V/1	0.500	1.00
HCD107-221M	220	20	0.1V/1	0.600	0.95
HCD107-271M	270	20	0.1V/1	0.750	0.90
HCD107-331M	330	20	0.1V/1	0.800	0.80
HCD107-391M	390	20	0.1V/1	1.000	0.75
HCD107-471M	470	20	0.1V/1	1.200	0.65
HCD107-561M	560	20	0.1V/1	1.500	0.60
HCD107-681M	680	20	0.1V/1	2.000	0.50
HCD107-821M	820	20	0.1V/1	2.300	0.48
HCD107-102M	1000	20	0.1V/1	2.500	0.46
HCD107-122M	1200	20	0.1V/1	3.000	0.35

Note: Isat:Based on inductance change ($\Delta L/L_0 \leq 10\%$)@ambient temp. 25°C