

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

SMT POWER INDUCTORS (UNSHIELDED)

YLS031D/YLS032D/YLS043D/YLS054D/YLS073D/YLS075D/YLS104D/YLS105D SERIES

1.FEATURES

- . High performance (I Sat) realized by metal dust core.
- . Low loss realized with low DCR .
- . Ultra low buzz noise, due to composite construction.
- . 100% lead (Pb) free meet RoHS Standard.

2.APPLICATIONS

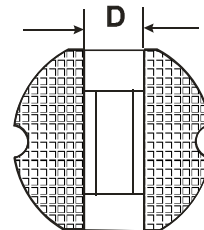
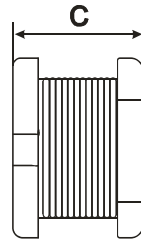
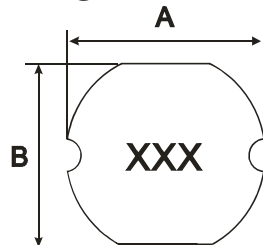
- . DC/DC converter for CPU in notebook PC.
- . Power supply for VTR,OA equipment Digital camera,LCD television set notebook PC. Etc.

3.PART NUMBERING SYSTEM

YLS 032D - 1R0 M
 1 2 3 4

SERIES NAME DIMENSIONS INDUCTANCE TOLERANCE

4.MECHANICAL DRAWING



5.DINENSIONS (UNIT:mm)

No.	SERIES	A (MAX)	B (MAX)	C (MAX)	D	
1	YLS031D	3.5±0.3	3.0±0.3	1.5±0.3	1.0	CD31
2	YLS032D	3.5±0.3	3.0±0.3	2.1±0.3	1.0	CD32
3	YLS043D	4.5±0.3	4.0±0.3	3.2±0.3	1.2	CD43
4	YLS053D	5.8±0.3	5.2±0.3	3.2±0.3	2.0	CD53
5	YLS054D	5.8±0.3	5.2±0.3	4.5±0.3	1.5	CD54
6	YLS073D	7.8±0.3	7.0±0.3	3.5±0.5	2.0	CD73
7	YLS075D	7.8±0.3	7.0±0.3	5.0±0.5	2.5	CD75
8	YLS104D	10±0.3	9.0±0.3	4.0±0.5	2.2	CD104
9	YLS105D	10±0.3	9.0±0.3	5.0±0.5	3.0	CD105

福建省漳州市云霄县云陵镇亭堂工业区
 Industrial xiang tang yun xiao town zhangzhou
 city fujian province

惠州市博罗县龙溪镇电子城路46号科瑞高新产业园
 Kerui High-tech Industrial Park, No.46, Yuecheng Road, Longxi Town,
 Boluo County, Huizhou city, Guangdong Province

TEL:0596-8523238 0596-8545556 FAX:0596-8523938

TEL:0752-6809969 0752-6676654 FAX:0752-6809939

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

SMT POWER INDUCTORS (UNSHIELDED)

贴片功率电感

YLS031D SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS031D-3R3M	3R3	3.3	100 KHZ	0.26	1.00
YLS031D-4R7M	4R7	4.7	100 KHZ	0.40	0.90
YLS031D-5R6M	5R6	5.6	100 KHZ	0.45	0.80
YLS031D-6R8M	6R8	6.8	100 KHZ	0.50	0.70
YLS031D-8R2M	8R2	8.2	100 KHZ	0.65	0.65
YLS031D-100M	100	10	100 KHZ	0.75	0.60
YLS031D-120M	120	12	100 KHZ	0.85	0.55
YLS031D-150M	150	15	100 KHZ	1.20	0.50
YLS031D-180M	180	18	100 KHZ	1.30	0.45
YLS031D-220M	220	22	100 KHZ	1.50	0.40
YLS031D-250M	250	27	100 KHZ	2.20	0.35
YLS031D-330M	330	33	100 KHZ	2.80	0.30
YLS031D-470M	470	47	100 KHZ	4.00	0.25
YLS031D-560M	560	56	100 KHZ	4.50	0.20
YLS031D-680M	680	68	100 KHZ	5.00	0.18
YLS031D-820M	820	82	100 KHZ	6.50	0.16
YLS031D-101M	101	100	100 KHZ	7.50	0.15
YLS031D-221M	221	220	100 KHZ	14.00	0.13
YLS031D-331M	331	330	100 KHZ	22.00	0.11
YLS031D-391M	391	390	100 KHZ	26.00	0.10

1.Tolerance:M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 10% of initial value at rated current, temperature rises, $\Delta T=40^{\circ}\text{C}$

3.Operating temperature : -25°C to 85°C .

4.Packaging quantity: 3000pcs/Reel

5.Unspecified values available on request.

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

SMT POWER INDUCTORS (UNSHIELDED)

贴片功率电感

YLS032D SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS032D-1R0M	1R0	1.0	100 KHZ	0.07	2.080
YLS032D-1R4M	1R4	1.4	100 KHZ	0.09	1.860
YLS032D-1R8M	1R8	1.8	100 KHZ	0.11	1.800
YLS032D-2R2M	2R2	2.2	100 KHZ	0.13	1.390
YLS032D-2R7M	2R7	2.7	100 KHZ	0.14	1.320
YLS032D-3R3M	3R3	3.3	100 KHZ	1.20	1.250
YLS032D-3R9M	3R9	3.9	100 KHZ	0.21	1.200
YLS032D-4R7M	4R7	4.7	100 KHZ	0.33	1.030
YLS032D-5R6M	5R6	5.6	100 KHZ	0.35	0.910
YLS032D-6R8M	6R8	6.8	100 KHZ	0.38	0.850
YLS032D-8R2M	8R2	8.2	100 KHZ	0.43	0.820
YLS032D-100M	100	10	100 KHZ	0.50	0.740
YLS032D-120M	120	12	100 KHZ	0.65	0.640
YLS032D-150M	150	15	100 KHZ	0.82	0.600
YLS032D-180M	180	18	100 KHZ	0.90	0.540
YLS032D-220M	220	22	100 KHZ	1.14	0.500
YLS032D-270M	270	27	100 KHZ	1.39	0.430
YLS032D-330M	330	33	100 KHZ	1.55	0.400
YLS032D-390M	390	39	100 KHZ	2.15	0.370
YLS032D-470M	470	47	100 KHZ	2.44	0.360
YLS032D-560M	560	56	100 KHZ	2.68	0.310
YLS032D-680M	680	68	100 KHZ	3.05	0.300
YLS032D-820M	820	82	100 KHZ	3.48	0.280
YLS032D-471M	471	470	100 KHZ	14.00	0.090
YLS032D-152M	152	1500	100 KHZ	56.00	0.052

1.Tolerance:M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 10% of initial value at rated current, temperature rises, $\Delta T=40^{\circ}\text{C}$

3.Operating temperature : -25 °C to 85 °C.

4.Packaging quantity: 3000pcs/Reel

5.Unspecified values available on request.

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

SMT POWER INDUCTORS (UNSHIELDED)

贴片功率电感

YLS043D SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS043D-1R0M	1R0	1.0	100 KHZ	0.048	2.56
YLS043D-1R4M	1R4	1.4	100 KHZ	0.0562	2.52
YLS043D-1R8M	1R8	1.8	100 KHZ	0.0637	1.95
YLS043D-2R2M	2R2	2.2	100 KHZ	0.0712	1.75
YLS043D-2R7M	2R7	2.7	100 KHZ	0.0787	1.58
YLS043D-3R3M	3R3	3.3	100 KHZ	0.0862	1.44
YLS043D-3R9M	3R9	3.9	100 KHZ	0.0937	1.33
YLS043D-4R7M	4R7	4.7	100 KHZ	0.1087	1.15
YLS043D-5R6M	5R6	5.6	100 KHZ	0.1257	0.99
YLS043D-6R8M	6R8	6.8	100 KHZ	0.1312	0.95
YLS043D-8R2M	8R2	8.2	100 KHZ	0.1462	0.84
YLS043D-100M	100	10	100 KHZ	0.182	1.04
YLS043D-120M	120	12	100 KHZ	0.210	0.97
YLS043D-150M	150	15	100 KHZ	0.235	0.85
YLS043D-180M	180	18	100 KHZ	0.338	0.74
YLS043D-220M	220	22	100 KHZ	0.378	0.68
YLS043D-270M	270	27	100 KHZ	0.522	0.62
YLS043D-330K	330	33	100 KHZ	0.540	0.56
YLS043D-390K	390	39	100 KHZ	0.587	0.52
YLS043D-470K	470	47	100 KHZ	0.844	0.44
YLS043D-560K	560	56	100 KHZ	0.937	0.42
YLS043D-680K	680	68	100 KHZ	1.117	0.37

1.Tolerance:M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 10% of initial value at rated current, temperature rises, $\Delta T=40^{\circ}\text{C}$

3.Operating temperature : -25°C to 85°C .

4.Packaging quantity: 2000pcs/Reel

5.Unspecified values available on request.

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

SMT POWER INDUCTORS (UNSHIELDED)

贴片功率电感

YLS054D SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS054D-100M	100	10	100 KHZ	0.1	1.44
YLS054D-120M	120	12	100 KHZ	0.12	1.40
YLS054D-150M	150	15	100 KHZ	0.14	1.30
YLS054D-180M	180	18	100 KHZ	0.15	1.23
YLS054D-220M	220	22	100 KHZ	0.18	1.11
YLS054D-270M	270	27	100 KHZ	0.20	0.97
YLS054D-330L	330	33	100 KHZ	0.23	0.88
YLS054D-390L	390	39	100 KHZ	0.32	0.80
YLS054D-470L	470	47	100 KHZ	0.37	0.72
YLS054D-560K	560	56	100 KHZ	0.42	0.68
YLS054D-680K	680	68	100 KHZ	0.46	0.61
YLS054D-820K	820	82	100 KHZ	0.60	0.58
YLS054D-101K	101	100	10 KHZ	0.70	0.52
YLS054D-121K	121	120	10 KHZ	0.93	0.48
YLS054D-151K	151	150	10 KHZ	1.10	0.40
YLS054D-181K	181	180	10 KHZ	1.38	0.38
YLS054D-221K	221	220	10 KHZ	1.57	0.35
YLS054D-271K	271	270	10 KHZ	1.85	0.30

1.Tolerance:M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 10% of initial value at rated current, temperature rises, $\Delta T=40^{\circ}\text{C}$

3.Operating temperature : -25°C to 85°C .

4.Packaging quantity: 1500pcs/Reel

5.Unspecified values available on request.

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

SMT POWER INDUCTORS (UNSHIELDED)

贴片功率电感

YLS073D SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS073D-100M	100	10	100 KHZ	0.0803	1.44
YLS073D-120M	120	12	100 KHZ	0.0897	1.39
YLS073D-150M	150	15	100 KHZ	0.104	1.24
YLS073D-180M	180	18	100 KHZ	0.111	1.12
YLS073D-220M	220	22	100 KHZ	0.129	1.07
YLS073D-270M	270	27	100 KHZ	0.153	0.94
YLS073D-330M	330	33	100 KHZ	0.170	0.85
YLS073D-390M	390	39	100 KHZ	0.217	0.74
YLS073D-470M	470	47	100 KHZ	0.252	0.68
YLS073D-560K	560	56	100 KHZ	0.282	0.64
YLS073D-680K	680	68	100 KHZ	0.332	0.59
YLS073D-820K	820	82	100 KHZ	0.406	0.54
YLS073D-101K	101	100	10 KHZ	0.481	0.51
YLS073D-121K	121	120	10 KHZ	0.536	0.49
YLS073D-151K	151	150	10 KHZ	0.755	0.40
YLS073D-181K	181	180	10 KHZ	1.022	0.36
YLS073D-221K	221	220	10 KHZ	1.200	0.31
YLS073D-271K	271	270	10 KHZ	1.306	0.29
YLS073D-331K	331	330	10 KHZ	1.495	0.28

1.Tolerance:M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 10% of initial value at rated current, temperature rises, $\Delta T=40^{\circ}\text{C}$

3.Operating temperature : -25 °C to 85 °C.

4.Packaging quantity: 1000pcs/Reel

5.Unspecified values available on request.

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

SMT POWER INDUCTORS (UNSHIELDED)

贴片功率电感

YLS075D SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS075D-100M	100	10	100 KHZ	0.07	2.30
YLS075D-120M	120	12	100 KHZ	0.08	2.00
YLS075D-150M	150	15	100 KHZ	0.09	1.80
YLS075D-180M	180	18	100 KHZ	0.10	1.60
YLS075D-220M	220	22	100 KHZ	0.11	1.50
YLS075D-270M	270	27	100 KHZ	0.12	1.30
YLS075D-330M	330	33	100 KHZ	0.13	1.20
YLS075D-390M	390	39	100 KHZ	0.16	1.10
YLS075D-470M	470	47	100 KHZ	0.18	1.10
YLS075D-560K	560	56	100 KHZ	0.24	0.94
YLS075D-680K	680	68	100 KHZ	0.28	0.85
YLS075D-820K	820	82	100 KHZ	0.37	0.78
YLS075D-101K	101	100	10 KHZ	0.43	0.72
YLS075D-121K	121	120	10 KHZ	0.47	0.66
YLS075D-151K	151	150	10 KHZ	0.64	0.58
YLS075D-181K	181	180	10 KHZ	0.71	0.51
YLS075D-221K	221	220	10 KHZ	0.96	0.49
YLS075D-271K	271	270	10 KHZ	1.11	0.42
YLS075D-331K	331	330	10 KHZ	1.26	0.40
YLS075D-391K	391	390	10 KHZ	1.77	0.36
YLS075D-471K	471	470	10 KHZ	1.96	0.34

1.Tolerance:M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 10% of initial value at rated current, temperature rises, $\Delta T=40^{\circ}\text{C}$

3.Operating temperature : -25 °C to 85 °C.

4.Packaging quantity: 1000pcs/Reel

5.Unspecified values available on request.

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

SMT POWER INDUCTORS (UNSHIELDED)

贴片功率电感

YLS104D SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS104D-100M	100	10	100 KHZ	0.053	2.38
YLS104D-120M	120	12	100 KHZ	0.061	2.13
YLS104D-150M	150	15	100 KHZ	0.070	1.87
YLS104D-180M	180	18	100 KHZ	0.081	1.73
YLS104D-220M	220	22	100 KHZ	0.088	1.60
YLS104D-270M	270	27	100 KHZ	0.100	1.44
YLS104D-330M	330	33	100 KHZ	0.120	1.26
YLS104D-390M	390	39	100 KHZ	0.151	1.20
YLS104D-470M	470	47	100 KHZ	0.170	1.10
YLS104D-560K	560	56	100 KHZ	0.199	1.01
YLS104D-680K	680	68	100 KHZ	0.223	0.91
YLS104D-820K	820	82	100 KHZ	0.252	0.85
YLS104D-101K	101	100	10 KHZ	0.344	0.74
YLS104D-121K	121	120	10 KHZ	0.396	0.69
YLS104D-151K	151	150	10 KHZ	0.544	0.61
YLS104D-181K	181	180	10 KHZ	0.621	0.56
YLS104D-221K	221	220	10 KHZ	0.721	0.53
YLS104D-271K	271	270	10 KHZ	0.949	0.45
YLS104D-331K	331	330	10 KHZ	1.100	0.42
YLS104D-391K	391	390	10 KHZ	1.245	0.38
YLS104D-471K	471	470	10 KHZ	1.526	0.35
YLS104D-561K	561	560	10 KHZ	1.904	0.32

1.Tolerance:M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 10% of initial value at rated current, temperature rises, $\Delta T=40^{\circ}C$

3.Operating temperature : $-25^{\circ}C$ to $85^{\circ}C$.

4.Packaging quantity: 1000pcs/Reel

5.Unspecified values available on request.

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

SMT POWER INDUCTORS (UNSHIELDED)

贴片功率电感

YLS105D SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS105D-100M	100	10	100 KHZ	0.06	2.60
YLS105D-120M	120	12	100 KHZ	0.07	2.45
YLS105D-150M	150	15	100 KHZ	0.08	2.27
YLS105D-180M	180	18	100 KHZ	0.09	2.15
YLS105D-220M	220	22	100 KHZ	0.10	1.95
YLS105D-270M	270	27	100 KHZ	0.11	1.76
YLS105D-330M	330	33	100 KHZ	0.12	1.50
YLS105D-390M	390	39	100 KHZ	0.14	1.37
YLS105D-470M	470	47	100 KHZ	0.17	1.28
YLS105D-560K	560	56	100 KHZ	0.19	1.17
YLS105D-680K	680	68	100 KHZ	0.22	1.11
YLS105D-820K	820	82	100 KHZ	0.25	1.00
YLS105D-101K	101	100	10 KHZ	0.35	0.97
YLS105D-121K	121	120	10 KHZ	0.40	0.89
YLS105D-151K	151	150	10 KHZ	0.47	0.78
YLS105D-181K	181	180	10 KHZ	0.63	0.72
YLS105D-221K	221	220	10 KHZ	0.73	0.66
YLS105D-271K	271	270	10 KHZ	0.97	0.57
YLS105D-331K	331	330	10 KHZ	1.15	0.52
YLS105D-391K	391	390	10 KHZ	1.30	0.48
YLS105D-471K	471	470	10 KHZ	1.48	0.42
YLS105D-561K	561	560	10 KHZ	1.90	0.33
YLS105D-681K	681	680	10 KHZ	2.25	0.28
YLS105D-821K	821	820	10 KHZ	2.55	0.24

1.Tolerance:M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 10% of initial value at rated current, temperature rises, $\Delta T=40^{\circ}\text{C}$

3.Operating temperature : -25 °C to 85 °C.

4.Packaging quantity: 1000pcs/Reel

5.Unspecified values available on request.