

# 毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

## SMT POWER INDUCTORS (SHIELDED)

### YLS06/YLS07/YLS10/YLS12 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.

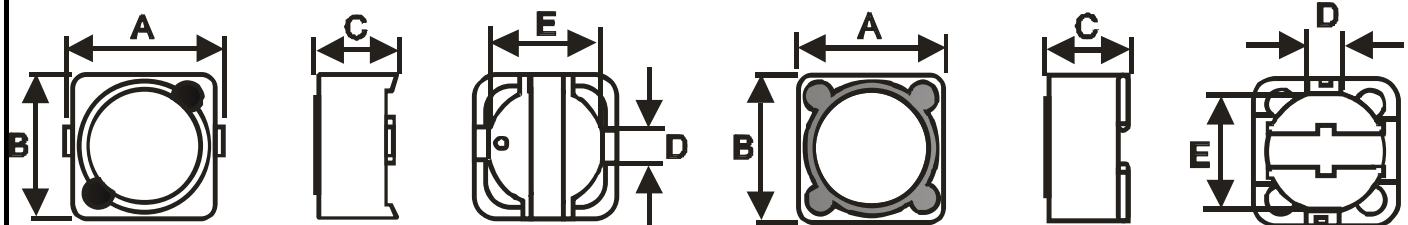
#### 2.APPLICATIONS

- . 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

<u>YLS</u>	<u>065P</u>	-	<u>100</u>	<u>M</u>
1	2		3	4
SERIES NAME	DIMENSIONS		INDUCTANCE	TOLERANCE

#### 4.MECHANICAL DRAWING



YLS65P

YLS73P-YLS129P

#### 5.DINENSIONS (UNIT:mm)

No.	SERIES	A	B	C (MAX)	D	E	
1	YLS65P	6.6±0.3	6.2±0.3	5.0	1.5±0.2	4.6±0.5	
2	YLS73P	7.3±0.3	7.3±0.3	3.5	1.8±0.5	5.4±0.5	
3	YLS74P	7.3±0.3	7.3±0.3	4.5	1.8±0.5	5.4±0.5	
4	YLS105P	9.8±0.3	8.9±0.3	5.0	2.0±0.5	5.4±0.5	
5	YLS124P	12±0.3	12±0.3	4.8	5.0±0.5	7.8±0.5	
6	YLS125P	12±0.3	12±0.3	6.0	5.0±0.5	7.8±0.5	
7	YLS127P	12±0.3	12±0.3	8.0	5.0±0.5	7.8±0.5	
8	YLS129P	12±0.3	12±0.3	10.0	5.0±0.5	7.8±0.5	

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 (SHIELDED)

### 贴片功率电感

#### YLS65P SERIES

#### Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS65P-100M	100	10	1 KHZ	0.12	1.35
YLS65P-120M	120	12	1 KHZ	0.13	1.22
YLS65P-150M	150	15	1 KHZ	0.18	1.11
YLS65P-180M	180	18	1 KHZ	0.24	1.02
YLS65P-220M	220	22	1 KHZ	0.27	0.91
YLS65P-270M	270	27	1 KHZ	0.30	0.82
YLS65P-330M	330	33	1 KHZ	0.33	0.74
YLS65P-390M	390	39	1 KHZ	0.37	0.69
YLS65P-470M	470	47	1 KHZ	0.52	0.62
YLS65P-560M	560	56	1 KHZ	0.56	0.58
YLS65P-680M	680	68	1 KHZ	0.63	0.51
YLS65P-820M	820	82	1 KHZ	0.71	0.46
YLS65P-101M	101	100	1 KHZ	1.03	0.42
YLS65P-121M	121	120	1 KHZ	1.15	0.38
YLS65P-151M	151	150	1 KHZ	1.68	0.35
YLS65P-181M	181	180	1 KHZ	1.87	0.32
YLS65P-221M	221	220	1 KHZ	2.08	0.29
YLS65P-271M	271	270	1 KHZ	2.37	0.26
YLS65P-331M	331	330	1 KHZ	2.67	0.23
YLS65P-391M	391	390	1 KHZ	2.94	0.22
YLS65P-471M	471	470	1 KHZ	3.93	0.20
YLS65P-561M	561	560	1 KHZ	5.43	0.18
YLS65P-681M	681	680	1 KHZ	7.32	0.17
YLS65P-821M	821	820	1 KHZ	8.24	0.15
YLS65P-102M	102	1000	1 KHZ	9.26	0.14

1.Tolerance:N:±30%,M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 25% 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 (SHIELDED)

贴片功率电感

YLS73P SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS73P-100M	100	10	1 KHZ	0.072	1.68
YLS73P-120M	120	12	1 KHZ	0.098	1.52
YLS73P-150M	150	15	1 KHZ	0.13	1.33
YLS73P-180M	180	18	1 KHZ	0.14	1.20
YLS73P-220M	220	22	1 KHZ	0.19	1.07
YLS73P-270M	270	27	1 KHZ	0.21	0.96
YLS73P-330M	330	33	1 KHZ	0.24	0.91
YLS73P-390M	390	39	1 KHZ	0.32	0.77
YLS73P-470M	470	47	1 KHZ	0.36	0.76
YLS73P-560M	560	56	1 KHZ	0.47	0.68
YLS73P-680M	680	68	1 KHZ	0.52	0.61
YLS73P-820M	820	82	1 KHZ	0.69	0.57
YLS73P-101M	101	100	1 KHZ	0.79	0.50
YLS73P-121M	121	120	1 KHZ	0.89	0.49
YLS73P-151M	151	150	1 KHZ	1.27	0.43
YLS73P-181M	181	180	1 KHZ	1.45	0.39
YLS73P-221M	221	220	1 KHZ	1.65	0.35
YLS73P-271M	271	270	1 KHZ	2.31	0.32
YLS73P-331M	331	330	1 KHZ	2.62	0.28
YLS73P-391M	391	390	1 KHZ	2.94	0.26
YLS73P-471M	471	470	1 KHZ	4.18	0.24
YLS73P-561M	561	560	1 KHZ	4.67	0.22
YLS73P-681M	681	680	1 KHZ	5.73	0.19
YLS73P-821M	821	820	1 KHZ	6.54	0.18
YLS73P-102M	102	1000	1 KHZ	9.44	0.16

1.Tolerance:N:±30%,M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 25% 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 (SHIELDED)

### 贴片功率电感

#### YLS74P SERIES

#### Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS74P-100M	100	10	1 KHZ	0.049	1.84
YLS74P-120M	120	12	1 KHZ	0.058	1.71
YLS74P-150M	150	15	1 KHZ	0.081	1.47
YLS74P-180M	180	18	1 KHZ	0.091	1.31
YLS74P-220M	220	22	1 KHZ	0.110	1.23
YLS74P-270M	270	27	1 KHZ	0.150	1.12
YLS74P-330M	330	33	1 KHZ	0.170	0.96
YLS74P-390M	390	39	1 KHZ	0.230	0.91
YLS74P-470M	470	47	1 KHZ	0.260	0.88
YLS74P-560M	560	56	1 KHZ	0.350	0.75
YLS74P-680M	680	68	1 KHZ	0.380	0.69
YLS74P-820M	820	82	1 KHZ	0.430	0.61
YLS74P-101M	101	100	1 KHZ	0.610	0.60
YLS74P-121M	121	120	1 KHZ	0.660	0.52
YLS74P-151M	151	150	1 KHZ	0.880	0.46
YLS74P-181M	181	180	1 KHZ	0.980	0.42
YLS74P-221M	221	220	1 KHZ	1.170	0.36
YLS74P-271M	271	270	1 KHZ	1.640	0.34
YLS74P-331M	331	330	1 KHZ	1.860	0.32
YLS74P-391M	391	390	1 KHZ	2.850	0.29
YLS74P-471M	471	470	1 KHZ	3.010	0.26
YLS74P-561M	561	560	1 KHZ	3.620	0.23
YLS74P-681M	681	680	1 KHZ	4.630	0.22
YLS74P-821M	821	820	1 KHZ	5.200	0.20
YLS74P-102M	102	1000	1 KHZ	6.000	0.18

1.Tolerance:N:±30%,M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 25% 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.

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SMT POWER INDUCTORS (SHIELDED)

贴片功率电感

YLS105P SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS105P-100M	100	10	1 KHZ	0.050	2.40
YLS105P-120M	120	12	1 KHZ	0.054	2.25
YLS105P-150M	150	15	1 KHZ	0.061	2.00
YLS105P-180M	180	18	1 KHZ	0.084	1.80
YLS105P-220M	220	22	1 KHZ	0.094	1.65
YLS105P-270M	270	27	1 KHZ	0.110	1.45
YLS105P-330M	330	33	1 KHZ	0.150	1.35
YLS105P-390M	390	39	1 KHZ	0.170	1.20
YLS105P-470M	470	47	1 KHZ	0.210	1.10
YLS105P-560M	560	56	1 KHZ	0.230	1.00
YLS105P-680M	680	68	1 KHZ	0.260	0.93
YLS105P-820M	820	82	1 KHZ	0.360	0.84
YLS105P-101M	101	100	1 KHZ	0.410	0.76
YLS105P-121M	121	120	1 KHZ	0.450	0.70
YLS105P-151M	151	150	1 KHZ	0.640	0.63
YLS105P-181M	181	180	1 KHZ	0.840	0.57
YLS105P-221M	221	220	1 KHZ	0.960	0.52
YLS105P-271M	271	270	1 KHZ	1.070	0.47
YLS105P-331M	331	330	1 KHZ	1.370	0.43
YLS105P-391M	391	390	1 KHZ	1.550	0.39
YLS105P-471M	471	470	1 KHZ	1.740	0.36

1.Tolerance:N:±30%,M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 25% 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: 750pcs/Reel

5.Unspecified values available on request.

# 毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

## SMT POWER INDUCTORS (SHIELDED)

### 贴片功率电感

#### YLS124P SERIES

#### Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS124P-3R9M	3R9	3.9	100 KHZ	0.015	6.50
YLS124P-4R7M	4R7	4.7	100 KHZ	0.018	5.70
YLS124P-6R8M	6R8	6.8	100 KHZ	0.023	4.90
YLS124P-8R2M	8R2	8.2	100 KHZ	0.026	4.60
YLS124P-100M	100	10	1 KHZ	0.028	4.50
YLS124P-120M	120	12	1 KHZ	0.038	4.00
YLS124P-150M	150	15	1 KHZ	0.050	3.20
YLS124P-180M	180	18	1 KHZ	0.057	3.10
YLS124P-220M	220	22	1 KHZ	0.066	2.90
YLS124P-270M	270	27	1 KHZ	0.080	2.80
YLS124P-330M	330	33	1 KHZ	0.097	2.70
YLS124P-390M	390	39	1 KHZ	0.132	2.10
YLS124P-470M	470	47	1 KHZ	0.140	1.90
YLS124P-560M	560	56	1 KHZ	0.190	1.80
YLS124P-680M	680	68	1 KHZ	0.220	1.50
YLS124P-820M	820	82	1 KHZ	0.260	1.30
YLS124P-101M	101	100	1 KHZ	0.308	1.20
YLS124P-121M	121	120	1 KHZ	0.380	1.10
YLS124P-151M	151	150	1 KHZ	0.530	0.95
YLS124P-181M	181	180	1 KHZ	0.620	0.85
YLS124P-221M	221	220	1 KHZ	0.700	0.80
YLS124P-271M	271	270	1 KHZ	0.870	0.60
YLS124P-331M	331	330	1 KHZ	0.990	0.50

1.Tolerance:N:±30%,M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 25% 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: 500pcs/Reel

5.Unspecified values available on request.

# 毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

## SMT POWER INDUCTORS (SHIELDED)

### 贴片功率电感

#### YLS125P SERIES

#### Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS125P-1R3N	1R3	1.3	100 KHZ	0.012	8.00
YLS125P-2R1N	2R1	2.1	100 KHZ	0.014	7.00
YLS125P-3R1N	3R1	3.1	100 KHZ	0.017	6.00
YLS125P-4R4N	4R4	4.4	100 KHZ	0.020	5.00
YLS125P-5R8N	5R8	5.8	100 KHZ	0.021	4.40
YLS125P-7R5N	7R5	7.5	100 KHZ	0.024	4.20
YLS125P-100M	100	10	1 KHZ	0.025	4.00
YLS125P-120M	120	12	1 KHZ	0.027	3.50
YLS125P-150M	150	15	1 KHZ	0.030	3.30
YLS125P-180M	180	18	1 KHZ	0.034	3.00
YLS125P-220M	220	22	1 KHZ	0.036	2.80
YLS125P-270M	270	27	1 KHZ	0.051	2.30
YLS125P-330M	330	33	1 KHZ	0.057	2.10
YLS125P-390M	390	39	1 KHZ	0.068	2.00
YLS125P-470M	470	47	1 KHZ	0.075	1.80
YLS125P-560M	560	56	1 KHZ	0.110	1.70
YLS125P-680M	680	68	1 KHZ	0.120	1.50
YLS125P-820M	820	82	1 KHZ	0.140	1.40
YLS125P-101M	101	100	1 KHZ	0.160	1.30
YLS125P-121M	121	120	1 KHZ	0.170	1.10
YLS125P-151M	151	150	1 KHZ	0.230	1.00
YLS125P-181M	181	180	1 KHZ	0.290	0.90
YLS125P-221M	221	220	1 KHZ	0.400	0.80
YLS125P-271M	271	270	1 KHZ	0.460	0.75
YLS125P-331M	331	330	1 KHZ	0.51	0.68
YLS125P-391M	391	390	1 KHZ	0.690	0.65
YLS125P-471M	471	470	1 KHZ	0.770	0.58
YLS125P-561M	561	560	1 KHZ	0.860	0.54
YLS125P-681M	681	680	1 KHZ	1.200	0.48
YLS125P-821M	821	820	1 KHZ	1.340	0.43
YLS125P-102M	102	1000	1 KHZ	1.530	0.40

1.Tolerance:N:±30%,M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 25% of initial value at rated current, temperature rises, ΔT=40℃

3.Operating temperature : -25 ℃ to 85 ℃.

4.Packaging quantity: 400pcs/Reel

5.Unspecified values available on request.

# 毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

## SMT POWER INDUCTORS (SHIELDED)

### 贴片功率电感

#### YLS127P SERIES

#### Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS127P-1R2N	1R2	1.2	100 KHZ	0.007	9.80
YLS127P-2R4N	2R4	2.4	100 KHZ	0.012	8.00
YLS127P-3R5N	3R5	3.5	100 KHZ	0.014	7.50
YLS127P-4R7N	4R7	4.7	100 KHZ	0.016	6.80
YLS127P-6R1N	5R8	5.8	100 KHZ	0.018	6.60
YLS127P-7R6N	7R5	7.5	100 KHZ	0.020	5.90
YLS127P-100M	100	10	1 KHZ	0.022	5.40
YLS127P-120M	120	12	1 KHZ	0.024	4.90
YLS127P-150M	150	15	1 KHZ	0.030	4.50
YLS127P-180M	180	18	1 KHZ	0.039	3.90
YLS127P-220M	220	22	1 KHZ	0.043	3.60
YLS127P-270M	270	27	1 KHZ	0.046	3.40
YLS127P-330M	330	33	1 KHZ	0.065	3.00
YLS127P-390M	390	39	1 KHZ	0.073	2.75
YLS127P-470M	470	47	1 KHZ	0.100	2.50
YLS127P-560M	560	56	1 KHZ	0.110	2.35
YLS127P-680M	680	68	1 KHZ	0.140	2.10
YLS127P-820M	820	82	1 KHZ	0.160	1.95
YLS127P-101M	101	100	1 KHZ	0.220	1.70
YLS127P-121M	121	120	1 KHZ	0.250	1.60
YLS127P-151M	151	150	1 KHZ	0.280	1.42
YLS127P-181M	181	180	1 KHZ	0.350	1.30
YLS127P-221M	221	220	1 KHZ	0.390	1.16
YLS127P-271M	271	270	1 KHZ	0.560	1.06
YLS127P-331M	331	330	1 KHZ	0.640	0.95
YLS127P-391M	391	390	1 KHZ	0.700	0.88
YLS127P-471M	471	470	1 KHZ	0.980	0.79
YLS127P-561M	561	560	1 KHZ	1.070	0.73
YLS127P-681M	681	680	1 KHZ	1.460	0.67
YLS127P-821M	821	820	1 KHZ	1.640	0.60
YLS127P-102M	102	1000	1 KHZ	1.820	0.55

1.Tolerance:N:±30%,M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 25% of initial value at rated current, temperature rises,  $\Delta T=40^{\circ}\text{C}$

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

4.Packaging quantity: 400pcs/Reel

5.Unspecified values available on request.

# 毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

## SMT POWER INDUCTORS (SHIELDED)

### 贴片功率电感

#### YLS129P SERIES

#### Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS129P-1R2N	1R0	1.0	100 KHZ	0.0055	11.60
YLS129P-1R8N	1R8	1.8	100 KHZ	0.0065	11.00
YLS129P-2R8N	2R8	2.8	100 KHZ	0.0080	10.30
YLS129P-3R5N	3R5	3.5	100 KHZ	0.0097	8.70
YLS129P-4R7N	4R7	4.7	100 KHZ	0.0110	8.40
YLS129P-6R8N	6R8	6.8	100 KHZ	0.0124	7.10
YLS129P-7R5N	7R5	7.5	1 KHZ	0.0140	6.95
YLS129P-100N	100	10	1 KHZ	0.0180	6.80
YLS129P-120M	120	12	1 KHZ	0.0190	6.20
YLS129P-150M	150	15	1 KHZ	0.0260	5.22
YLS129P-220M	220	22	1 KHZ	0.0290	4.95
YLS129P-330M	330	33	1 KHZ	0.0530	3.60
YLS129P-470M	470	47	1 KHZ	0.0630	3.45
YLS129P-560M	560	56	1 KHZ	0.0680	2.95
YLS129P-680M	680	68	1 KHZ	0.0930	2.85
YLS129P-820M	820	82	1 KHZ	0.0990	2.60
YLS129P-101M	101	100	1 KHZ	0.1260	2.45
YLS129P-121M	121	120	1 KHZ	0.1540	2.20
YLS129P-151M	151	150	1 KHZ	0.1740	1.90
YLS129P-181M	181	180	1 KHZ	0.1910	1.86
YLS129P-221M	221	220	1 KHZ	0.2460	1.72
YLS129P-331M	331	330	1 KHZ	0.3860	1.28
YLS129P-471M	471	470	1 KHZ	0.4710	1.25
YLS129P-561M	561	560	1 KHZ	0.6500	0.98
YLS129P-681M	681	680	1 KHZ	0.7300	0.96
YLS129P-821M	821	820	1 KHZ	0.8240	0.94
YLS129P-102M	102	1000	1 KHZ	1.2200	0.79
YLS129P-122M	122	1200	1 KHZ	1.3300	0.78
YLS129P-152M	152	1500	1 KHZ	2.0000	0.58
YLS129P-182M	182	1800	1 KHZ	2.1800	0.54
YLS129P-222M	222	2200	1 KHZ	2.5800	0.52

1.Tolerance:N:±30%,M:±20%,L:±15%,K:±10%

2.Inductance drops no more than 25% of initial value at rated current, temperature rises,  $\Delta T=40^{\circ}\text{C}$

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

4.Packaging quantity: 400pcs/Reel

5.Unspecified values available on request.