

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

ULTAR HIGH CURRENT SMT POWER INDUCTORS

YLPI0603/YLPI0604 SERIES

1.FEATURES

- . High performance (I Sat) realized by metal dust core.
- . Low loss realized with low DCR .
- . Capable of corresponding high frequency (1MHz)
- . Ultra low buzz noise, due to composite construction.
- . 100% lead (Pb) free meet RoHS Standard.

2.APPLICATIONS

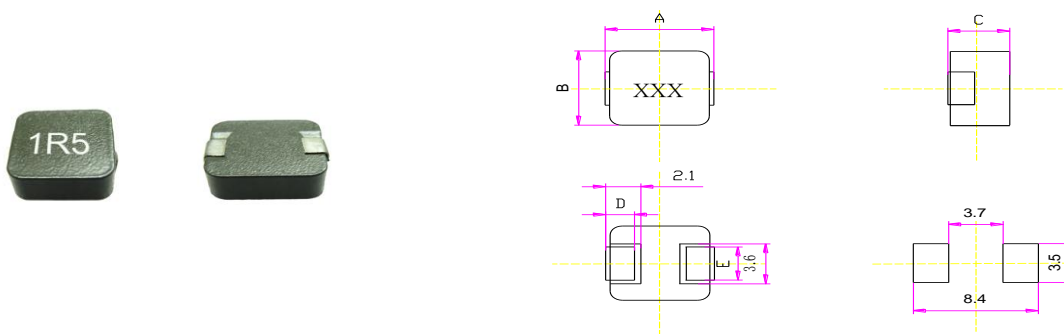
- . DC/DC converter for CPU in notebook PC.
- . Thin type on-board power supply module for exchanger.
- . VRM for server.

3.PART NUMBERING SYSTEM

YLPI 0603 - 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	E
1	YLPI0618	7.8	7.0	1.8	1.5±0.5	3.0±0.3
2	YLPI0602	7.8	7.0	2.4	1.5±0.5	3.0±0.3
3	YLPI0603	7.8	7.0	3.2	1.6±0.5	By each P/N
3	YLPI0604	7.8	7.0	4.2	1.6±0.5	By each P/N

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

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Guangdong Province

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

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

ULTAR HIGH CURRENT SMT POWER INDUCTORS

YLPI1004/YLPI1005 SERIES

1.FEATURES

- . High performance (I Sat) realized by metal dust core.
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- . Capable of corresponding high frequency (1MHz)
- . Ultra low buzz noise, due to composite construction.
- . 100% lead (Pb) free meet RoHS Standard.

2.APPLICATIONS

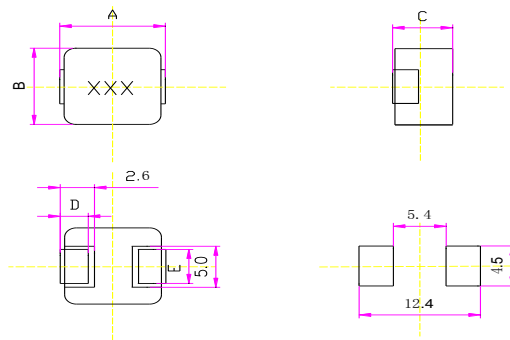
- . DC/DC converter for CPU in notebook PC.
- . Thin type on-board power supply module for exchanger.
- . VRM for server.

3.PART NUMBERING SYSTEM

YLPI 1004 - 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	E
1	YLPI1004	11.8	10.5	4.2	2.0±0.5	By each P/N
2	YLPI1005	11.8	10.5	5.0	2.0±0.5	By each P/N

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毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

ULTAR HIGH CURRENT SMT POWER INDUCTORS

YLPI1203/YLPI1205/YLPI1207 SERIES

1.FEATURES

- . High performance (I Sat) realized by metal dust core.
- . Low loss realized with low DCR .
- . Capable of corresponding high frequency (1MHz)
- . Ultra low buzz noise, due to composite construction.
- . 100% lead (Pb) free meet RoHS Standard.

2.APPLICATIONS

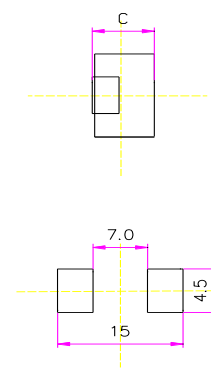
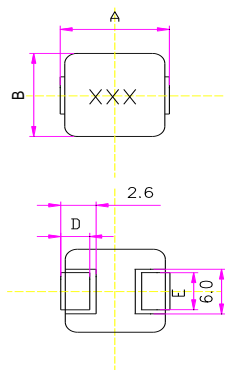
- . DC/DC converter for CPU in notebook PC.
- . Thin type on-board power supply module for exchanger.
- . VRM for server.

3.PART NUMBERING SYSTEM

YLPI 1203 - 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	E
1	YLPI1203	13.9	13.5	3.7	2.6±0.5	By each P/N
2	YLPI1205	13.9	13.5	5.2	2.6±0.5	By each P/N
3	YLPI1207	13.9	13.5	7.0	2.6±0.5	By each P/N

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毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

ULTAR HIGH CURRENT SMT POWER INDUCTORS

大电流一体成型功率电感

YLPI0603 SERIES

Electrical Specification

PART NUMBER	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (mΩ) MAX.	I Sat (A) Typ	I rms (A) Typ
YLPI0618-R47M	0.47	100 KHZ	8.4	18	11
YLPI0618-R68M	0.68	100 KHZ	12	16	10.5
YLPI0618-1R0M	1.0	100 KHZ	22	11	6
YLPI0618-1R5M	1.5	100 KHZ	30	9.8	6.5
YLPI0618-2R2M	2.2	100 KHZ	35	9	6
YLPI0618-3R3M	3.3	100 KHZ	68	8	3.5
YLPI0618-4R7M	4.7	100 KHZ	75	5	3
YLPI0618-100M	10.0	100 KHZ	137	3	2

1.Tolerance:M:±20%,L:±15%,K:±10%

2.I sat: The current will cause L0 to drop approximately 20% typical.

3.I rms: The current will cause the coil temperature rise approximately $\Delta T=40^{\circ}\text{C}$ without core loss.

4.Operating temperature : -55 °C to 125 °C.

5.Unspecified values available on request.

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

ULTAR HIGH CURRENT SMT POWER INDUCTORS

大电流一体成型功率电感

YLPI0603 SERIES

Electrical Specification

PART NUMBER	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (mΩ) MAX.	I Sat (A) Typ	I rms (A) Typ
YLPI0602-R22M	0.22	100 KHZ	2.8	35	17
YLPI0602-R47M	0.47	100 KHZ	6.8	21	13
YLPI0602-R68M	0.68	100 KHZ	8	20	9
YLPI0602-1R0M	1.0	100 KHZ	11	13	7
YLPI0602-1R5M	1.5	100 KHZ	20	12	6.5
YLPI0602-2R2M	2.2	100 KHZ	26	11	6
YLPI0602-3R3M	3.3	100 KHZ	28	8.7	5.8
YLPI0602-4R7M	4.7	100 KHZ	73	8	3.5
YLPI0602-5R6M	5.6	100 KHZ	80	7	5
YLPI0602-6R8M	6.8	100 KHZ	90	5	3
YLPI0602-100M	10	100 KHZ	125	4.5	3

1.Tolerance:M:±20%,L:±15%,K:±10%

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大电流一体成型功率电感

YLPI0603 SERIES

Electrical Specification

PART NUMBER	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (mΩ) MAX.	I Sat (A) Typ	I rms (A) Typ
YLPI0603-R10M	0.10	100 KHZ	1.70	43.0	32.5
YLPI0603-R15M	0.15	100 KHZ	2.50	38.0	26
YLPI0603-R20M	0.20	100 KHZ	3.00	36.0	24
YLPI0603-R22M	0.22	100 KHZ	3.20	36.0	23
YLPI0603-R33M	0.33	100 KHZ	3.90	30.0	20
YLPI0603-R47M	0.47	100 KHZ	4.20	26.0	17.5
YLPI0603-R68M	0.68	100 KHZ	5.50	23.0	15.5
YLPI0603-R82M	0.82	100 KHZ	8.00	20.0	13.0
YLPI0603-1R0M	1.0	100 KHZ	10.0	16.0	11.0
YLPI0603-1R2M	1.2	100 KHZ	13.0	14.0	10.0
YLPI0603-1R5M	1.5	100 KHZ	15.0	14.0	9.00
YLPI0603-2R2M	2.2	100 KHZ	20.0	12.0	8.00
YLPI0603-3R3M	3.3	100 KHZ	30.0	10.0	6.00
YLPI0603-4R7M	4.7	100 KHZ	40.0	6.5	5.50
YLPI0603-6R8M	6.8	100 KHZ	60.0	6.0	4.50
YLPI0603-100M	10	100 KHZ	110	4.5	3.5

1.Tolerance:M:±20%,L:±15%,K:±10%

2.I sat: The current will cause L0 to drop approximately 20% typical.

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4.Operating temperature : -55°C to 125°C .

5.Unspecified values available on request.

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ULTAR HIGH CURRENT SMT POWER INDUCTORS

大电流一体成型功率电感

YLPI0604 SERIES

Electrical Specification

PART NUMBER	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (mΩ) MAX.	I Sat (A) Typ	I rms (A) Typ
YLPI0604-R33M	0.33	100 KHZ	1.40	32.0	25.0
YLPI0604-R47M	0.47	100 KHZ	2.50	30.0	20.0
YLPI0604-R56M	0.56	100 KHZ	3.00	29.0	19.0
YLPI0604-R68M	0.68	100 KHZ	3.80	28.0	17.0
YLPI0604-R82M	0.82	100 KHZ	5.00	24.0	16.0
YLPI0604-1R0M	0.47	100 KHZ	5.80	20.0	15.0
YLPI0604-1R2M	1.2	100 KHZ	7.60	19.0	15.0
YLPI0604-1R5M	1.5	100 KHZ	8.40	18.0	14.0
YLPI0604-1R8M	1.8	100 KHZ	8.60	15.0	13.0
YLPI0604-2R2M	2.2	100 KHZ	15.0	16.0	12.0
YLPI0604-3R3M	3.3	100 KHZ	18.0	14.0	10.0
YLPI0604-4R7M	4.7	100 KHZ	21.0	13.0	7.00
YLPI0604-5R6M	5.6	100 KHZ	30.0	9.00	5.50
YLPI0604-6R8M	6.8	100 KHZ	30.0	7.00	5.50
YLPI0604-8R2M	8.2	100 KHZ	36.0	7.00	4.50
YLPI0604-100M	10	100 KHZ	60.0	6.50	4.50
YLPI0604-220M	22	100 KHZ	91.0	3.50	2.50

1.Tolerance:M:±20%,L:±15%,K:±10%

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ULTAR HIGH CURRENT SMT POWER INDUCTORS

大电流一体成型功率电感

YLPI1004 SERIES

Electrical Specification

PART NUMBER	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (mΩ) MAX.	I Sat (A) Typ	I rms (A) Typ
YLPI1004-R36M	0.36	100 KHZ	1.40	40.0	28.0
YLPI1004-R47M	0.47	100 KHZ	1.60	38.0	26.0
YLPI1004-R56M	0.56	100 KHZ	1.90	36.0	25.0
YLPI1004-R68M	0.68	100 KHZ	2.40	32.0	23.0
YLPI1004-1R0M	1.0	100 KHZ	3.50	28.0	20.0
YLPI1004-1R5M	1.5	100 KHZ	7.50	20.0	12.0
YLPI1004-2R2M	2.20	100 KHZ	8.56	16.5	11.5
YLPI1004-3R3M	3.30	100 KHZ	10.0	14.0	10.0
YLPI1004-4R7M	4.70	100 KHZ	13.5	13.0	8.00
YLPI1004-5R6M	5.60	100 KHZ	16.0	12.0	7.00
YLPI1004-8R2M	8.20	100 KHZ	32.5	8.00	5.00
YLPI1004-100M	10.0	100 KHZ	35.0	7.00	4.50

YLPI1005 SERIES

Electrical Specification

PART NUMBER	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (mΩ) MAX.	I Sat (A) Typ	I rms (A) Typ
YLPI1005-R36M	0.36	100 KHZ	0.92	40.0	35.0
YLPI1005-R47M	0.47	100 KHZ	1.04	38.0	32.0
YLPI1005-R56M	0.56	100 KHZ	1.21	36.0	30.0
YLPI1005-R60M	0.60	100 KHZ	1.50	32.0	29.2
YLPI1005-R68M	0.68	100 KHZ	1.50	32.0	29.2
YLPI1005-R82M	0.82	100 KHZ	1.86	30.0	26.0
YLPI1005-1R0M	1.00	100 KHZ	2.53	28.0	24.0
YLPI1005-1R5M	1.50	100 KHZ	3.02	22.0	20.0
YLPI1005-1R8M	1.80	100 KHZ	4.03	20.0	18.0
YLPI1005-2R2M	2.20	100 KHZ	4.60	20.0	17.0
YLPI1005-2R7M	2.70	100 KHZ	8.50	18.0	14.0

1.Tolerance:M:±20%,L:±15%,K:±10%

2.I sat: The current will cause L0 to drop approximately 20% typical.

3.I rms: The current will cause the coil temperature rise approximately $\Delta T=40^{\circ}\text{C}$ without core loss.

4.Operating temperature : -55°C to 125°C .

5.Unspecified values available on request.

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

ULTAR HIGH CURRENT SMT POWER INDUCTORS

大电流一体成型功率电感

YLPI1203 SERIES

Electrical Specification

PART NUMBER	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (mΩ) MAX.	I Sat (A) Typ	I rms (A) Typ
YLPI1203-R10M	0.10	100 KHZ	0.96	56.0	43.0
YLPI1203-R15M	0.15	100 KHZ	1.20	50.0	41.0
YLPI1203-R22M	0.22	100 KHZ	1.30	50.0	38.5
YLPI1203-R33M	0.33	100 KHZ	1.50	50.0	36.5
YLPI1203-R47M	0.47	100 KHZ	2.00	44.0	32.0
YLPI1203-R60M	0.60	100 KHZ	2.50	42.0	29.0
YLPI1203-R68M	0.68	100 KHZ	2.50	40.0	28.0
YLPI1203-R82M	0.82	100 KHZ	3.00	38.0	25.0
YLPI1203-1R0M	1.00	100 KHZ	3.50	36.0	24.0
YLPI1203-1R5M	1.50	100 KHZ	5.50	28.0	19.0
YLPI1203-1R8M	1.80	100 KHZ	7.00	24.0	16.5
YLPI1203-2R2M	2.20	100 KHZ	8.00	20.0	16.0
YLPI1203-3R3M	3.30	100 KHZ	12.0	18.0	12.0
YLPI1203-4R7M	4.70	100 KHZ	15.0	16.0	10.0
YLPI1203-5R6M	5.60	100 KHZ	18.0	14.0	10.0
YLPI1203-6R8M	6.80	100 KHZ	22.0	13.0	9.00

1.Tolerance:M:±20%,L:±15%,K:±10%

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4.Operating temperature : -55 °C to 125 °C.

5.Unspecified values available on request.

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ULTAR HIGH CURRENT SMT POWER INDUCTORS

大电流一体成型功率电感

YLPI1205 SERIES

Electrical Specification

PART NUMBER	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (mΩ) MAX.	I Sat (A) Typ	I rms (A) Typ
YLPI1205-R36M	0.36	100 KHZ	1.10	75.0	41.0
YLPI1205-R47M	0.47	100 KHZ	1.30	65.0	38.0
YLPI1205-R50M	0.50	100 KHZ	1.50	55.0	36.0
YLPI1205-R56M	0.56	100 KHZ	1.50	55.0	36.0
YLPI1205-R68M	0.68	100 KHZ	1.70	54.0	34.0
YLPI1205-1R0M	1.00	100 KHZ	2.50	50.0	29.0
YLPI1205-2R2M	2.20	100 KHZ	5.50	32.0	20.0
YLPI1205-2R7M	2.70	100 KHZ	4.90	30.0	20.0
YLPI1205-3R3M	3.30	100 KHZ	9.20	32.0	15.0
YLPI1205-4R7M	4.70	100 KHZ	15.0	27.0	12.0
YLPI1205-7R8M	7.80	100 KHZ	20.5	18.0	10.0
YLPI1205-8R2M	8.20	100 KHZ	28.0	12.0	8.50
YLPI1205-100M	10.0	100 KHZ	34.0	9.50	7.00

YLPI1207 SERIES

Electrical Specification

PART NUMBER	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (mΩ) MAX.	I Sat (A) Typ	I rms (A) Typ
YLPI1207-R33M	0.33	100 KHZ	0.90	65.0	46.0
YLPI1207-R47M	0.47	100 KHZ	1.20	63.0	41.0
YLPI1207-R68M	0.68	100 KHZ	1.60	60.0	35.0
YLPI1207-1R0M	1.00	100 KHZ	1.70	50.0	32.0
YLPI1207-1R5M	1.50	100 KHZ	2.60	45.0	27.0
YLPI1207-2R2M	2.20	100 KHZ	4.20	40.0	22.0
YLPI1207-3R3M	3.30	100 KHZ	6.80	35.0	18.0
YLPI1207-4R7M	4.70	100 KHZ	11.2	30.0	15.0
YLPI1207-6R8M	6.80	100 KHZ	14.0	17.0	12.0
YLPI1207-100M	10.0	100 KHZ	16.8	15.5	10.0

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4.Operating temperature : -55°C to 125°C .

5.Unspecified values available on request.