

毅力电子有限公司 Y.L.ELECTRONICS CO.,LTD

SMT POWER INDUCTORS (UNSHIELDED/SHIELDED)

YLS42C/YLS042A 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.

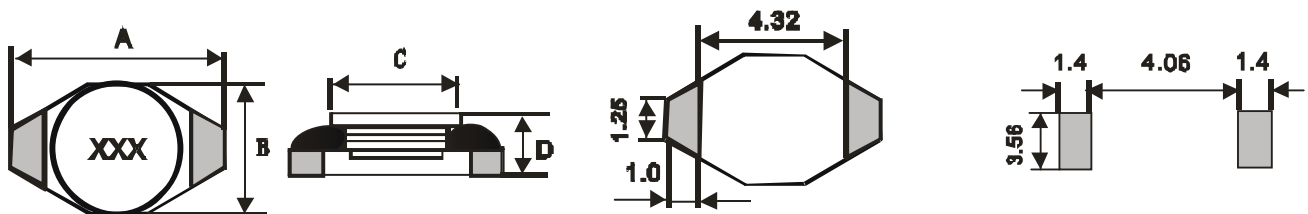
2.APPLICATIONS

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

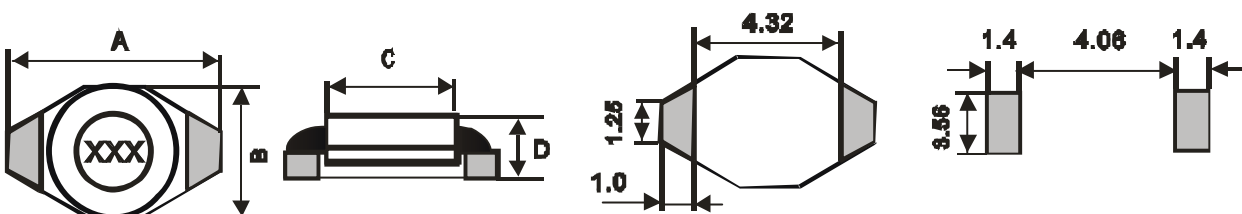
3.PART NUMBERING SYSTEM

<u>YLS</u>	<u>042C</u>	-	<u>1R0</u>	<u>M</u>
1	2		3	4
SERIES NAME	DIMENSIONS		INDUCTANCE	TOLERANCE

4.MECHANICAL DRAWING



YLS042C



YLS042S

5.DINENSIONS (UNIT:mm)

No.	SERIES	A (MAX)	B (MAX)	C (MAX)	D (MAX)	
1	YLS042C	6.60	4.45	4.0	2.92	
2	YLS042S	6.60	4.45	4.0	2.92	

福建省漳州市云霄县云陵镇享堂工业区
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

YLS042C SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS042C-1R0M	1R0	1.0	100 KHZ	0.05	2.9
YLS042C-1R5M	1R5	1.5	100 KHZ	0.05	2.6
YLS042C-2R2M	2R2	2.2	100 KHZ	0.07	2.3
YLS042C-2R7M	2R7	2.7	100 KHZ	0.07	2.3
YLS042C-3R3M	3R3	3.3	100 KHZ	0.08	2.0
YLS042C-4R7M	4R7	4.7	100 KHZ	0.09	1.50
YLS042C-6R8M	6R8	6.8	100 KHZ	0.13	1.20
YLS042C-100M	100	10	100 KHZ	0.16	1.10
YLS042C-150M	150	15	100 KHZ	0.23	0.90
YLS042C-220M	220	22	100 KHZ	0.37	0.70
YLS042C-330M	330	33	100 KHZ	0.51	0.58
YLS042C-470M	470	47	100 KHZ	0.64	0.50
YLS042C-680M	680	68	100 KHZ	0.86	0.40
YLS042C-101M	101	100	100 KHZ	1.27	0.31
YLS042C-151M	151	150	101 KHZ	2.00	0.27
YLS042C-221M	221	220	100 KHZ	3.11	0.22
YLS042C-331M	331	330	100 KHZ	3.80	0.18
YLS042C-471M	471	470	100 KHZ	5.06	0.16
YLS042C-681M	681	680	100 KHZ	9.20	0.14
YLS042C-102M	102	1000	100 KHZ	13.80	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.Unspecified values available on request.

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SMT POWER INDUCTORS (UNSHIELDED)

贴片功率电感

YLS042S SERIES

Electrical Specification

PART NUMBER	MARKING	INDUCTANCE L(uH)	TEST FREQ (0.25V)	DCR (Ω) MAX.	Rated Current (A)
YLS042S-1R0M	1R0	1.0	100 KHZ	0.040	3.00
YLS042S-1R5M	1R5	1.5	100 KHZ	0.045	2.80
YLS042S-2R2M	2R2	2.2	100 KHZ	0.050	1.80
YLS042S-3R3M	3R3	3.3	100 KHZ	0.055	1.60
YLS042S-4R7M	4R7	4.7	100 KHZ	0.060	1.40
YLS042S-6R8M	6R8	6.8	100 KHZ	0.065	1.20
YLS042S-100M	100	10	100 KHZ	0.075	1.00
YLS042S-150M	150	15	100 KHZ	0.090	0.80
YLS042S-220M	220	22	100 KHZ	0.110	0.70
YLS042S-330M	330	33	100 KHZ	0.190	0.60
YLS042S-470M	470	47	100 KHZ	0.230	0.50
YLS042S-680M	680	68	100 KHZ	0.290	0.40
YLS042S-101M	101	100	100 KHZ	0.480	0.30
YLS042S-151M	151	150	100 KHZ	0.590	0.26
YLS042S-221M	221	220	100 KHZ	0.770	0.22
YLS042S-331M	331	330	100 KHZ	1.400	0.20
YLS042S-471M	471	470	100 KHZ	1.800	0.19
YLS042S-681M	681	680	100 KHZ	2.200	0.18
YLS042S-102M	102	1000	100 KHZ	3.400	0.15
YLS042S-152M	152	1500	100 KHZ	4.200	0.12
YLS042S-222M	222	2200	100 KHZ	8.500	0.10
YLS042S-332M	332	3300	100 KHZ	11.000	0.08
YLS042S-472M	472	4700	100 KHZ	13.900	0.06
YLS042S-682M	682	6800	100 KHZ	25.000	0.04
YLS042S-103M	103	10000	100 KHZ	32.800	0.02

1.Tolerance:M:±20%,L:±15%,K:±10%

2. temperature rises, $\Delta T < 30^{\circ}\text{C}$ at rated current.

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

4.Unspecified values available on request.