



# L5102 Series

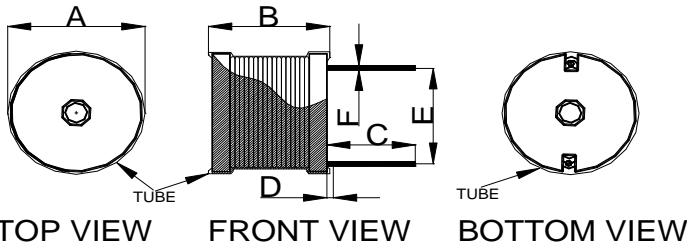


## 1. Features:

- Power Line Chokes is available in 367 standard values .
- Inductance Range:10uH to 2200uH. Custom values are welcomed.
- High current output chokes, up to 33 Amp with approx.5% roll off.
- Ideal for Switching Regulators, Power Amplifiers,RFI Suppression,Filters, Power Supplies,Speaker Crossover Networks,SCR and Triac Controls.
- Operating Temperature Range -25°C to + 125°C; RoHs compliance



## 2. Mechanical Dimension(Unit:mm):



Type	L5102
A	21.0 (max.)
B	21.5 (max.)
C	5.0 ± 1.0
D	0.5 (max.)
E	see below table
F	see below table

## 3. Electrical Characteristic of L5102 Series:

Part Number	OCL (uH) ±10%	DCR (mΩ) (Typ.)	DCR (mΩ) (Max.)	Isat (A) @25°C	L@Isat (uH) Typ.	Irms (A) @25°C	L@Irms (uH) Typ.	E (mm) (REF)	F (mm) ± 0.1
L5102-100KU	10	6.1	7.0	33.0	9.60	11.4	9.95	15.75	1.50
L5102-120KU	12	6.4	7.5	31.0	11.50	11.4	11.95	15.75	1.50
L5102-150KU	15	7.8	9.0	29.0	14.50	9.0	14.90	15.88	1.40
L5102-180KU	18	11.5	13.5	26.0	17.40	7.2	17.95	16.00	1.20
L5102-220KU	22	12.4	14.5	24.0	21.20	7.2	21.90	16.00	1.20
L5102-270KU	27	15.9	18.5	22.0	25.20	5.5	26.80	13.87	1.10
L5102-330KU	33	18.8	22.0	19.0	32.56	5.5	32.95	13.87	1.10
L5102-390KU	39	20.7	24.0	18.0	37.60	5.5	38.90	15.10	1.10
L5102-470KU	47	27.3	31.5	16.5	45.00	5.5	46.90	15.88	1.00
L5102-560KU	56	29.3	34.0	14.5	54.00	5.5	55.80	15.88	1.00
L5102-680KU	68	32.8	38.0	14.0	66.20	4.8	67.80	16.66	1.00
L5102-820KU	82	38.0	44.0	13.0	79.00	4.8	81.80	16.66	1.00
L5102-101KU	100	60.5	70.0	11.5	96.20	4.0	99.60	15.06	0.80
L5102-121KU	120	67.4	78.0	10.5	116.20	4.0	119.40	15.06	0.80
L5102-151KU	150	74.6	86.0	9.0	144.70	4.0	149.90	15.06	0.80
L5102-181KU	180	81.7	94.0	8.5	173.90	4.0	179.60	17.05	0.80
L5102-221KU	220	93.4	107.5	8.0	211.20	2.8	219.80	15.06	0.80
L5102-271KU	270	132.5	152.5	6.2	260.00	2.0	269.70	14.27	0.70
L5102-331KU	330	185.7	214.0	6.0	320.50	1.6	329.50	15.00	0.60
L5102-391KU	390	206.5	237.5	5.5	375.00	1.6	389.50	15.00	0.60
L5102-471KU	470	231.8	267.0	5.2	455.70	1.6	469.50	15.00	0.60
L5102-561KU	560	255.5	294.0	4.7	541.00	1.6	559.30	15.00	0.60
L5102-681KU	680	286.9	330.0	4.2	655.30	1.6	679.20	15.00	0.60
L5102-821KU	820	425.8	490.0	4.0	786.50	1.3	819.20	15.00	0.50
L5102-102KU	1000	486.4	560.0	3.6	963.50	1.0	997.80	15.00	0.50
L5102-122KU	1200	545.8	628.0	3.2	1153.80	0.8	1199.00	15.00	0.50
L5102-152KU	1500	626.1	720.0	2.9	1443.30	0.8	1497.90	15.00	0.50
L5102-182KU	1800	703.8	809.5	2.3	1736.60	0.8	1796.90	15.00	0.50
L5102-222KU	2200	927.0	1067	2.2	2146.70	0.8	2197.00	15.00	0.45

**Note:** 1>.Open Circuit Inductance(OCL) and L@ Irms and L @Isat are measured at: 10KHz, 1.0V ;(Ta=25°C).

2>.Isat: DC current that causes inductance to drop approximately by 5% from OCL ;(Ta=25°C).

3>. Irms: DC current for an approximate temperature rise of 20°C without core loss ;

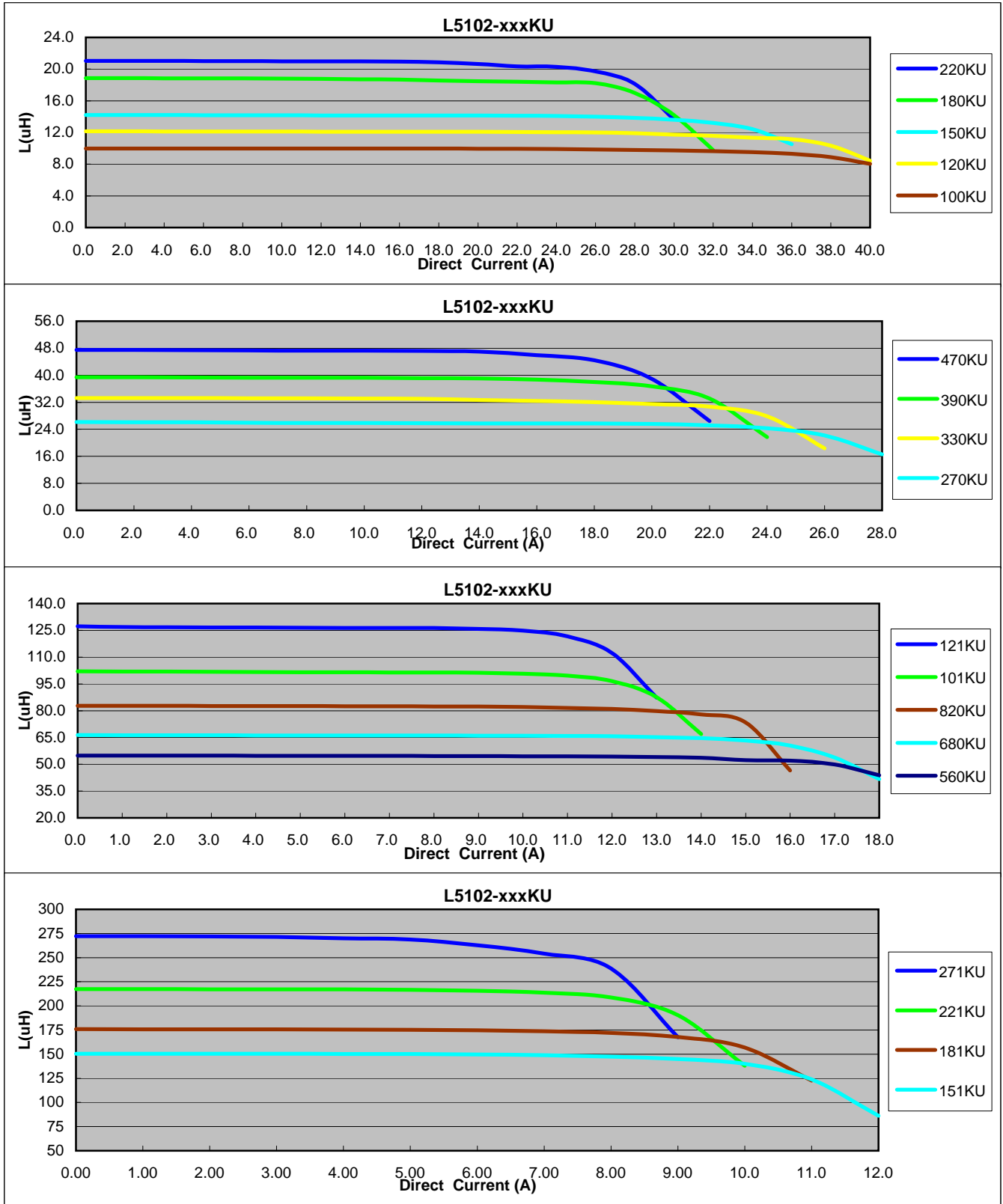
US 1 914 347 2474 ●Taiwan 886 972 022 388 ●Shenzhen 86 755 8418 6263 ●Shanghai 86 21 5424 5141 ●HK 852 9688 9767

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## Inductance vs. Current





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