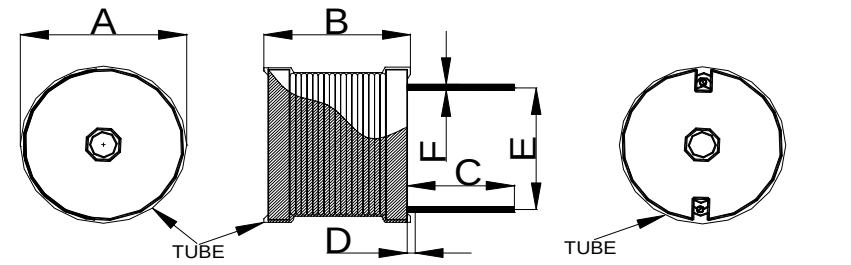
L5103 Series

1. Features:

· Power Line Chokes offer cost effective solution with wide inductance value from 47uH to 15000uH,custom values are welcomed ;
· High current output chokes, up to 40 Amp for 47uH ;
· Ideal for Switching Regulators, Power Amplifiers,RFI Suppression,Filters, Power Supplies,Speaker Crossover Networks,SCR and Triac Controls ;
· Operating Temperature Range -55°C to + 130°C; RoHs compliance ;

2. Mechanical Dimension(Unit:mm):



TOP VIEW FRONT VIEW BOTTOM VIEW

Type	L5103
A	40.5 (Max.)
B	28.0 (Max.)
C	5.0 ± 1.0
D	0.5 (Max.)
E	see below table
F	see below table

3. Electrical Characteristic of L5103 Series:

Part Number	OCL (uH) ±10%	DCR (mΩ) (Typ.)	DCR (mΩ) (Max.)	Isat (A) @25℃	L@Isat (uH) Typ.	Irms (A) @25℃	L@Irms (uH) Typ.	E (mm) (REF)	F (mm) ± 0.1
L5103-470KU	47	12.77	15.0	40.0	45.2	14.4	46.66	28.96	1.70
L5103-560KU	56	13.99	16.5	38.0	53.8	14.4	55.9	28.96	1.70
L5103-680KU	68	15.47	18.0	35.0	65.4	14.4	67.9	28.96	1.70
L5103-101KU	100	18.87	22.0	28.5	95.6	14.4	99.8	28.96	1.70
L5103-151KU	150	28.86	33.5	24.0	144.4	11.4	149.5	28.57	1.50
L5103-221KU	220	38.23	44.0	19.5	211.5	11.4	219.5	28.57	1.50
L5103-271KU	270	47.45	55.0	16.0	258.6	11.4	267.8	29.36	1.40
L5103-391KU	390	73.77	85.0	12.0	373.6	9.0	375.2	30.15	1.20
L5103-561KU	560	96.71	111.5	11.0	536.0	7.2	558.7	28.57	1.15
L5103-821KU	820	136.04	156.5	10.0	804.4	7.2	817.3	30.15	1.10
L5103-102KU	1000	177.10	204	9.5	977.5	5.5	999.5	26.97	1.00
L5103-152KU	1500	229.20	264	7.5	1468.0	4.5	1494.6	29.36	1.00
L5103-222KU	2200	390.00	449	5.5	2143.5	4.0	2184.0	26.97	0.80
L5103-332KU	3300	516.10	594	5.0	3174.0	2.8	3286.0	26.97	0.80
L5103-472KU	4700	784.30	902	4.0	4595.0	2.0	4684.0	28.19	0.70
L5103-682KU	6800	1237.50	1424	3.5	6499.3	1.6	6767.0	28.19	0.60
L5103-103KU	10000	2051.50	2360	2.75	9692.3	1.3	9946.0	29.46	0.50
L5103-153KU	15000	2612.00	3004	1.9	14401.0	1.3	14892.0	29.46	0.50

Note:

1>.Open Circuit Inductance(OCL) and L@ Irms and L @Isat are measured at: 10KHz, 1.0V ;(Ta=25℃).
2>.Isat: DC current that causes inductance to drop approximately by 5% from OCL ;(Ta=25℃).
3>. Irms: DC current for an approximate temperature rise of 20℃ without core loss ;

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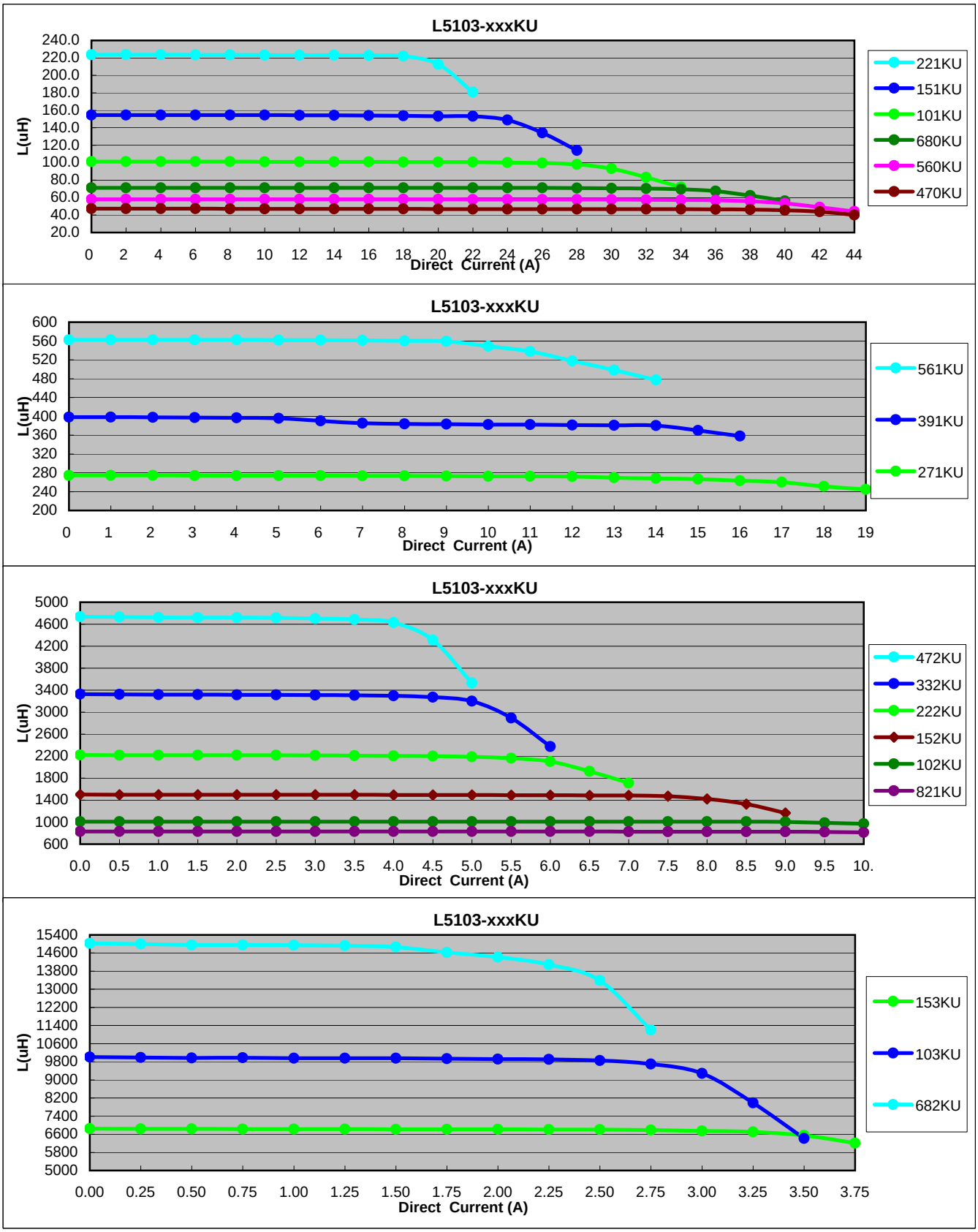
L5103 Series

Inductance vs. Current



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