Bull Will Co., Ltd.

Power Inductors

LI series

FEATURES

1. Low cost in iron-powder cores
2. Available in vertical or horizontal type
3. Custom-design is welcome.
4. 100% Lead(Pb)-Free and RoHS compliant.

APPLICATIONS

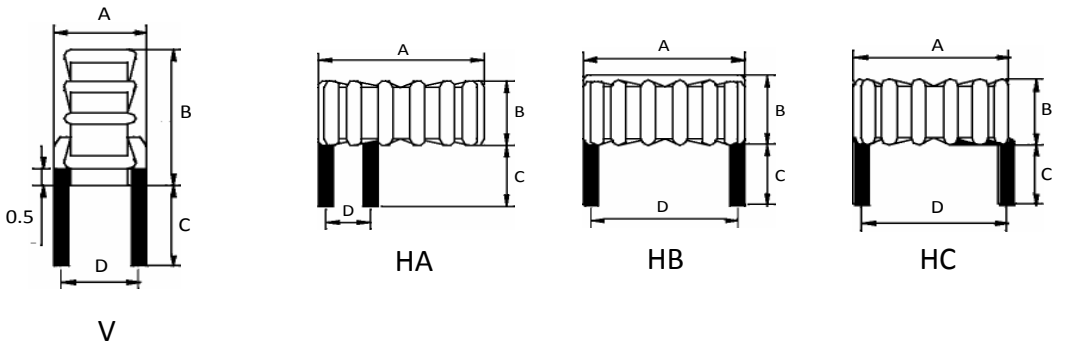
1. Motherboard power applications
2. Output chokes in general power systems

■PART NUMBER

LI	4452	—	101	K	30	—	V	T	F	V
A	B		C	D	E		F	G	H	I

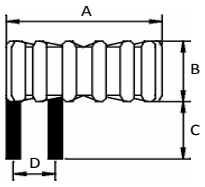
A: Series
B: Size & Material Grade
C: Inductance 101=100uH
D: Tolerance K=±10%, M=±20%
E : Rated Current 30=3000mA
F: Shape Type Vertical=Does not display code , Horizontal=HA/HB/HC
G: Add TUBE (optional)
H: Lead Free Code
I: ID Code

■SHAPE TYPES



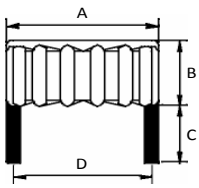
■DIMENSIONS

Type: HA	A Max	B Max	C	D
LI3852	13.0	8.0	6±1	5±1
LI4426	15.0	7.5	6±1	5±1
LI4452	15.0	7.5	6±1	5±1
LI5018	15.5	8.0	6±1	5±1
LI5018B	15.5	9.5	6±1	5±1
LI5026	15.5	8.0	6±1	5±1
LI5026B	15.5	9.5	6±1	5±1
LI5052	15.5	8.0	6±1	5±1
LI5052B	15.5	9.5	6±1	5±1
LI6018	20.0	10.0	6±1	6±1
LI6052	20.0	10.0	6±1	6±1



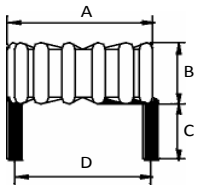
HA

Type: HB	A Max	B Max	C	D
LI3852	15	10.0	6±1	12±1
LI4426	16.5	9.5	6±1	13.5±1
LI4452	16.5	9.5	6±1	13.5±1
LI5018	18.0	10.0	6±1	15±1
LI5018B	18.0	11.5	6±1	15±1
LI5026	18.0	10.0	6±1	15±1
LI5026B	18.0	11.5	6±1	15±1
LI5052	18.0	10.0	6±1	15±1
LI5052B	18.0	11.5	6±1	15±1
LI6018	22.0	12.0	6±1	17±1
LI6052	22.0	12.0	6±1	17±1



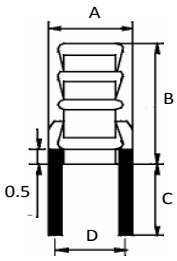
HB

Type: HC	A Max	B Max	C	D
LI3852	13.0	8.0	6±1	11±1
LI4426	15.0	7.5	6±1	12.5±1
LI4452	15.0	7.5	6±1	12.5±1
LI5018	15.5	8.0	6±1	14±1
LI5018B	15.5	9.5	6±1	14±1
LI5026	15.5	8.0	6±1	14±1
LI5026B	15.5	9.5	6±1	14±1
LI5052	15.5	8.0	6±1	14±1
LI5052B	15.5	9.5	6±1	14±1
LI6018	20.0	10.0	6±1	16±1
LI6052	20.0	10.0	6±1	16±1



HC

Type: V	A Max	B Max	C	D
LI3852	9.0	15	6±1	7.0±1
LI4426	8.5	16.5	6±1	6.5±1
LI4452	8.5	16.5	6±1	6.5±1
LI5018	9.0	18.0	6±1	7.0±1
LI5018B	10.0	18.0	6±1	8.5±1
LI5026	9.0	18.0	6±1	7.0±1
LI5026B	10.0	18.0	6±1	8.5±1
LI5052	9.0	18.0	6±1	7.0±1
LI5052B	10.0	18.0	6±1	8.5±1
LI6018	11.0	21.0	6±1	9.5REF
LI6052	11.0	21.0	6±1	9.5REF



V

■ELECTRICAL PARAMETERS

Part Number	Inductance (μH)	DC Resistance (mΩ) Max											Permissible DC current (A) Max /L(μH) Min. when current applied										
		3852	4426	4452	5018	5018B	5026	5026B	5052	5052B	6018	6052	3852	4426	4452	5018	5018B	5026	5026B	5052	5052B	6018	6052
1R0M-N	1.0	5.0	6.0	6.0	6.0	5.0	6.0	5.0	6.0	5.0	4.0	4.0	15/0.8	15/0.8	15/0.8	15/0.8	15/0.8	15/0.8	15/0.8	15/0.8	15/0.8	20/0.8	20/0.8
1R2M-N	1.2	5.0	6.0	6.0	6.0	5.0	6.0	5.0	6.0	5.0	4.0	4.0	15/1.0	15/1.0	15/1.0	15/1.0	15/1.0	15/1.0	15/1.0	15/1.0	15/1.0	20/1.0	20/1.0
1R5M-N	1.5	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0	12/1.2	12/1.2	12/1.2	15/1.2	15/1.2	12/1.2	15/1.2	12/1.2	15/1.2	20/1.2	20/1.2
1R8M-N	1.8	5.0	7.0	7.0	7.0	6.0	7.0	6.0	7.0	6.0	4.0	4.0	12/1.5	12/1.5	12/1.5	12/1.5	12/1.5	12/1.5	12/1.5	12/1.5	12/1.5	15/1.5	15/1.5
2R0M-N	2.0	5.0	7.0	7.0	7.0	6.0	7.0	6.0	7.0	6.0	4.0	4.0	11/1.6	11/1.6	11/1.6	12/1.6	12/1.6	11/1.6	12/1.6	11/1.6	12/1.6	15/1.6	15/1.6
2R2M-N	2.2	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	4.0	4.0	11/1.7	11/1.7	11/1.7	12/1.7	12/1.7	11/1.7	12/1.7	11/1.7	12/1.7	15/1.7	15/1.7
2R5M-N	2.5	6.0	8.0	8.0	8.0	7.0	8.0	7.0	8.0	7.0	5.0	5.0	10/2.0	10/2.0	10/2.0	10/2.0	10/2.0	10/2.0	10/2.0	10/2.0	10/2.0	15/2.0	15/2.0
2R7M-N	2.7	6.0	8.0	8.0	8.0	7.0	8.0	7.0	8.0	7.0	5.0	5.0	10/2.2	10/2.2	10/2.2	10/2.2	10/2.2	10/2.2	10/2.2	10/2.2	10/2.2	12/2.2	12/2.2
3R0M-N	3.0	6.0	8.0	8.0	8.0	7.0	8.0	7.0	8.0	7.0	5.0	5.0	9/2.4	9/2.4	9/2.4	10/2.4	10/2.4	9/2.4	10/2.4	9/2.4	10/2.4	12/2.4	12/2.4
3R3M-N	3.3	6.0	8.0	8.0	8.0	7.0	8.0	7.0	8.0	7.0	5.0	5.0	9/2.7	9/2.7	9/2.7	9/2.7	9/2.7	9/2.7	9/2.7	9/2.7	9/2.7	12/2.7	12/2.7
3R5M-N	3.5	6.0	8.0	9.0	9.0	8.0	9.0	8.0	9.0	8.0	5.0	5.0	8/2.8	8/2.8	8/2.8	9/2.8	9/2.8	8/2.8	9/2.8	8/2.8	9/2.8	12/2.8	12/2.8
3R9M-N	3.9	6.0	8.0	9.0	9.0	8.0	9.0	8.0	9.0	8.0	5.0	5.0	8/3.0	8/3.0	8/3.0	9/3.3	9/3.3	8/3.0	9/3.3	8/3.0	9/3.3	10/3.0	10/3.0
4R0M-N	4.0	6.0	8.0	9.0	9.0	8.0	9.0	8.0	9.0	8.0	5.0	5.0	7/3.2	7/3.2	7/3.2	8/3.2	8/3.2	7/3.2	8/3.2	7/3.2	8/3.2	10/3.2	10/3.2
4R5M-N	4.5	7.0	8.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	5.0	5.0	7/3.6	7/3.6	7/3.6	8/3.6	8/3.6	7/3.6	8/3.6	7/3.6	8/3.6	10/3.6	10/3.6
4R7M-N	4.7	7.0	9.0	10.0	10.0	9.0	10.0	9.0	10.0	9.0	6.0	6.0	6/3.8	6/3.8	6/3.8	8/3.8	8/3.8	6/3.8	8/3.8	6/3.8	8/3.8	9/3.8	9/3.8
5R0M-N	5.0	7.0	10.0	10.0	10.0	9.0	10.0	9.0	10.0	9.0	6.0	6.0	6/4.0	6/4.0	6/4.0	7/4.0	7/4.0	6/4.0	7/4.0	6/4.0	7/4.0	9/4.0	9/4.0
5R5M-N	5.5	8.0	10.0	10.0	10.0	9.0	10.0	9.0	10.0	9.0	6.0	6.0	5/4.4	5/4.4	5/4.4	7/4.4	7/4.4	5/4.4	7/4.4	5/4.4	7/4.4	8/4.4	8/4.4
6R0M-N	6.0	8.0	10.0	10.0	10.0	9.0	10.0	9.0	10.0	9.0	6.0	6.0	5/4.8	5/4.8	5/4.8	7/4.8	7/4.8	5/4.8	7/4.8	5/4.8	7/4.8	8/4.8	8/4.8
6R5M-N	6.5	8.0	10.0	10.0	11.0	9.0	11.0	9.0	11.0	9.0	6.0	6.0	5/5.0	5/5.0	5/5.0	6/5.2	6/5.2	5/5.0	6/5.2	5/5.0	6/5.2	8/5.2	8/5.2
7R0M-N	7.0	7.0	10.0	11.0	11.0	10.0	11.0	10.0	11.0	10.0	6.0	6.0	4/5.6	4/5.6	4/5.6	6/5.6	6/5.6	4/5.6	6/5.6	4/5.6	6/5.6	7/5.6	7/5.6
7R5M-N	7.5	7.0	10.0	11.0	11.0	10.0	11.0	10.0	11.0	10.0	6.0	6.0	4/6.1	4/6.1	4/6.1	5/6.1	5/6.1	4/6.1	5/6.1	4/6.1	5/6.1	7/6.1	7/6.1
8R0M-N	8.0	8.0	11.0	12.0	12.0	10.0	12.0	10.0	12.0	10.0	7.0	7.0	3/6.4	3/6.4	3/6.4	5/6.4	5/6.4	3/6.4	5/6.4	3/6.4	5/6.4	7/6.4	7/6.4
8R5M-N	8.5	8.0	11.0	12.0	12.0	11.0	12.0	11.0	12.0	11.0	7.0	7.0	3/6.8	3/6.8	3/6.8	4/6.8	4/6.8	3/6.8	4/6.8	3/6.8	4/6.8	6/6.8	6/6.8
9R0M-N	9.0	9.0	11.0	12.0	12.0	11.0	12.0	11.0	12.0	11.0	7.0	7.0	3/7.2	3/7.2	3/7.2	4/7.2	4/7.2	3/7.2	4/7.2	3/7.2	4/7.2	6/7.2	6/7.2
9R5M-N	9.5	9.0	11.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	7.0	7.0	2/7.6	2/7.6	2/7.6	3/7.6	3/7.6	2/7.6	3/7.6	2/7.6	3/7.6	6/7.6	6/7.6
100M-N	10.0	9.0	11.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	7.0	7.0	2/8.0	2/8.0	2/8.0	3/8.0	3/8.0	2/8.0	3/8.0	2/8.0	3/8.0	6/8.0	6/8.0

Testing condition of the inductance：10KHz, 1V