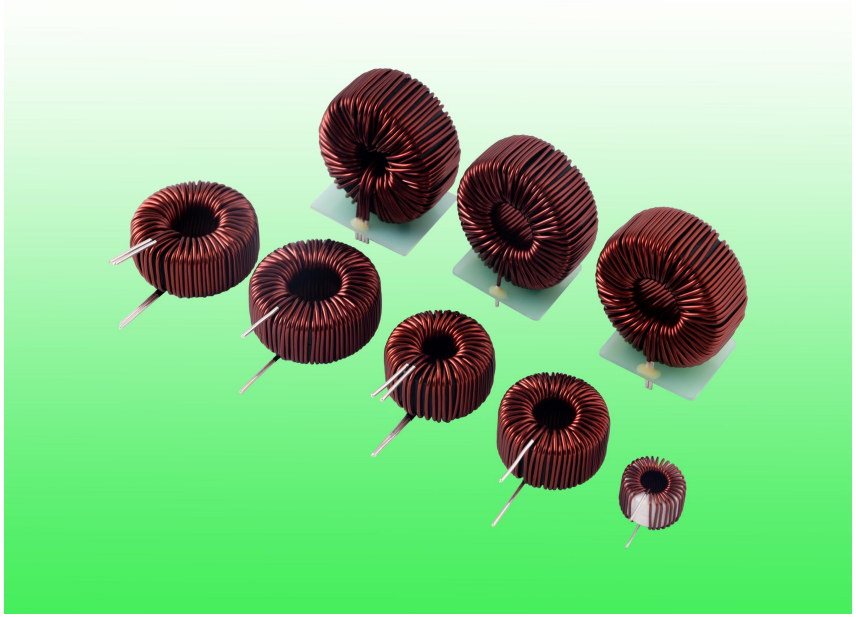
秦皇岛市燕秦纳米科技有限公司
Qinhuangdao Yanqin Nano Science and Technology Co., Ltd.

Smooth choke filter with amorphous core



■ **Characteristics:**

1 Total solution from core manufacture to the finished coil
2 Low core loss and low dissipation heat at high frequency with the amorphous magnetic core
3 Excellent anti-saturation by using air gap technology
4 Good temperature stability of magnetic properties
5 Products can be customized with other specifications
6 Suitable for small batch delivery with short lead time
7 Low cost when ordering in large quantities
8 Can be applied to large current over 50 Amps

■ **Applications:**

1 Smoothing and filtering of boost circuit
2 Noise suppression of signal lines
3 Filter circuits on semiconductor devices for SiC and GaN
4 Low noise requirement on power circuits
5 Resonator
6 Single-phase PFC, three-phase PFC, CHP and other circuits

※ **Notes:**

1 Operating temperature range at - 25℃～+ 120℃（including spontaneous temperature rise）
2 All products meet RoHS standard

No.	Part Code	Rated Current	Peak Current	L Value (μH) @75 kHz		DCR (mΩ)	Dimension (mm)						Coil Parameters			Figure
				I=0	I=Rated		Coil Size					IN Leng	Diameter (mm)	Parameter Value	Reference Turn (Ts)	
		Arms	[A]	±30%	min	Max	A	C	D	E	F	L				
1	YAGC-15A341-261VB	15	25	340	260	40	65	36	36	47	47	10	Φ2.0	1P	69	Fig. 1
2	YAGC-15A411-321VB	15	23	410	320	40	65	36	36	47	47	10	Φ2.0	1P	69	Fig. 1
3	YAGC-15A501-381VB	15	21	500	380	40	65	36	36	47	47	10	Φ2.0	1P	69	Fig. 1
4	YAGC-15A801-651VB	15	25	800	650	55	80	36	36	56	47	10	Φ2.0	1P	95	Fig. 1
5	YAGC-15A102-801VB	15	23	1000	800	55	80	36	36	56	47	10	Φ2.0	1P	95	Fig. 1
6	YAGC-15A122-901VB	15	21	1200	900	55	80	36	36	56	47	10	Φ2.0	1P	95	Fig. 1
7	YAGC-15A112-951VB	15	25	1100	950	60	85	42	42	61	53	10	Φ2.0	1P	92	Fig. 1
8	YAGC-15A142-112VB	15	23	1400	1100	60	85	42	42	61	53	10	Φ2.0	1P	92	Fig. 1
9	YAGC-15A162-132VB	15	21	1600	1300	60	85	42	42	61	53	10	Φ2.0	1P	92	Fig. 1

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				I=0	I=Rated		Coil Size					IN Lengt	Diameter (mm)	Parameter Value	Reference Turn (Ts)	
		Arms	[A]	±30%	min	Max	A	C	D	E	F	L				
10	YAGC-20A351-301V	20	28	350	300	20	80	35	-	-	-	20	Φ2.3	1 P	40	Fig. 2
11	YAGC-25A251-191VB	25	30	250	190	26	65	36	36	47	47	10	Φ2.3	1P	60	Fig. 1
12	YAGC-25A311-221VB	25	30	310	220	26	65	36	36	47	47	10	Φ2.3	1P	60	Fig. 1
13	YAGC-25A371-241VB	25	30	370	240	26	65	36	36	47	47	10	Φ2.3	1P	60	Fig. 1
14	YAGC-25A501-451V	25	35	500	450	30	85	45	-	-	-	20	Φ2.4	1 P	60	Fig. 2
15	YAGC-25A591-481VB	25	30	590	480	35	80	36	36	56	47	10	Φ2.3	1P	81	Fig. 1
16	YAGC-25A711-541VB	25	30	710	540	35	80	36	36	56	47	10	Φ2.3	1P	81	Fig. 1
17	YAGC-25A861-381VB	25	30	860	380	35	80	36	36	56	47	10	Φ2.3	1P	81	Fig. 1
18	YAGC-25A821-681VB	25	30	820	680	41	86	43	42	61	53	10	Φ2.3	1P	79	Fig. 1
19	YAGC-25A102-771VB	25	30	1000	770	41	86	43	42	61	53	10	Φ2.3	1P	79	Fig. 1
20	YAGC-25A112-781VB	25	30	1150	780	41	86	43	42	61	53	10	Φ2.3	1P	79	Fig. 1
21	YAGC-30A850-700VB	30	45	85	70	10	65	36	36	47	47	10	Φ2.0	2P	33	Fig. 1
22	YAGC-30A101-750VB	30	45	100	75	10	65	36	36	47	47	10	Φ2.0	2P	33	Fig. 1
23	YAGC-30A111-850VB	30	45	110	85	10	65	36	36	47	47	10	Φ2.0	2P	33	Fig. 1
24	YAGC-30A191-151VB	30	40	190	150	14	80	36	36	56	47	10	Φ2.0	2P	46	Fig. 1
25	YAGC-30A231-181VB	30	40	230	180	14	80	36	36	56	47	10	Φ2.0	2P	46	Fig. 1
26	YAGC-30A281-211VB	30	40	280	210	14	80	36	36	56	47	10	Φ2.0	2P	46	Fig. 1
27	YAGC-30A271-221VB	30	45	270	220	16	85	42	42	61	53	10	Φ2.0	2P	45	Fig. 1
28	YAGC-30A321-261VB	30	45	320	260	16	85	42	42	61	53	10	Φ2.0	2P	45	Fig. 1
29	YAGC-30A361-291VB	30	45	360	290	16	85	42	42	61	53	10	Φ2.0	2P	45	Fig. 1
30	YAGC-40A700-500VB	40	50	70	50	9	65	36	36	47	47	10	Φ2.2	2P	31	Fig. 1
31	YAGC-40A850-600VB	40	50	85	60	9	65	36	36	47	47	10	Φ2.2	2P	31	Fig. 1
32	YAGC-40A101-700VB	40	50	100	70	9	65	36	36	47	47	10	Φ2.2	2P	31	Fig. 1
33	YAGC-40A161-131VB	40	50	160	130	12	80	36	36	56	47	10	Φ2.2	2P	41	Fig. 1
34	YAGC-40A191-141VB	40	50	190	140	12	80	36	36	56	47	10	Φ2.2	2P	41	Fig. 1
35	YAGC-40A221-151VB	40	50	220	150	12	80	36	36	56	47	10	Φ2.2	2P	41	Fig. 1
36	YAGC-40A231-191VB	40	50	230	190	14	86	43	42	61	53	10	Φ2.2	2P	41	Fig. 1
37	YAGC-40A261-221VB	40	50	260	220	14	86	43	42	61	53	10	Φ2.2	2P	41	Fig. 1
38	YAGC-40A311-241VB	40	50	310	240	14	86	43	42	61	53	10	Φ2.2	2P	41	Fig. 1
39	YAGC-50A200-120V	50	60	20	12	4	63	35	-	-	-	20	Φ2.0	4P	10	Fig. 2
40	YAGC-50A500-350VB	50	60	50	35	6	65	36	36	47	47	10	Φ2.3	2P	26	Fig. 1
41	YAGC-50A600-400VB	50	60	60	40	6	65	36	36	47	47	10	Φ2.3	2P	26	Fig. 1
42	YAGC-50A700-450VB	50	60	70	45	6	65	36	36	47	47	10	Φ2.3	2P	26	Fig. 1
43	YAGC-50A121-900VB	50	60	120	90	8	80	36	36	56	47	10	Φ2.3	2P	36	Fig. 1
44	YAGC-50A141-101VB	50	60	140	100	8	80	36	36	56	47	10	Φ2.3	2P	36	Fig. 1
45	YAGC-50A171-900VB	50	60	170	90	8	80	36	36	56	47	10	Φ2.3	2P	36	Fig. 1
46	YAGC-50A151-131VB	50	60	150	130	5	87	50	50	71	61	10	Φ2.0	4P	24	Fig. 1

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				I=0	I=Rated		Coil Size					IN Lengt	Diameter (mm)	Parameter Value	Reference Turn (Ts)	
		Arms	[A]	±30%	min	Max	A	C	D	E	F	L				
47	YAGC-50A161-131VB	50	60	160	130	9	86	43	42	61	53	10	Φ2.3	2P	35	Fig. 1
48	YAGC-50A191-141VB	50	60	190	140	9	86	43	42	61	53	10	Φ2.3	2P	35	Fig. 1
49	YAGC-50A231-161VB	50	60	230	160	9	86	43	42	61	53	10	Φ2.3	2P	35	Fig. 1
50	YAGC-60A121-101V	60	80	120	100	5	86	55	-	-	-	22	Φ2.4	3P	22	Fig. 2
51	YAGC-80A650-650VB	80	100	65	65	5	87	50	50	71	61	10	Φ2.3	4P	18	Fig. 1

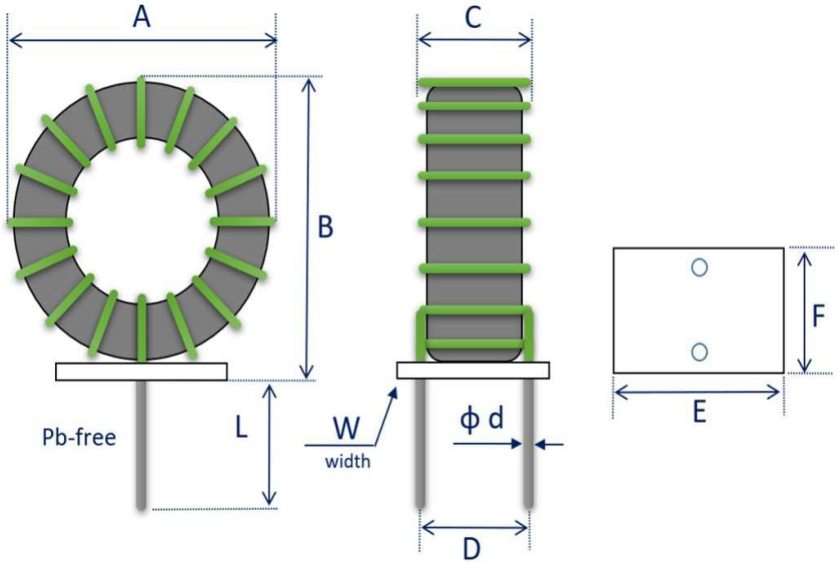

Fig. 1

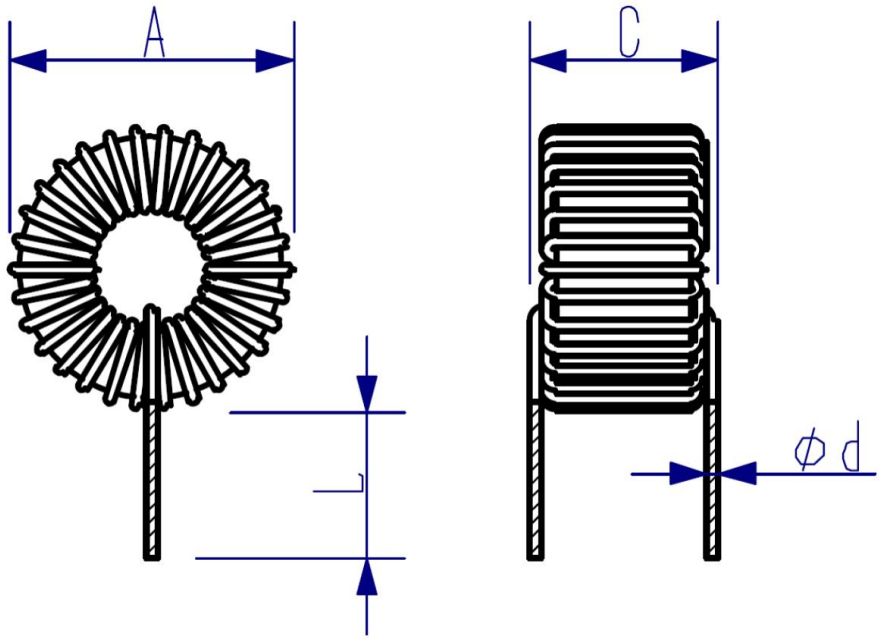

Fig. 2

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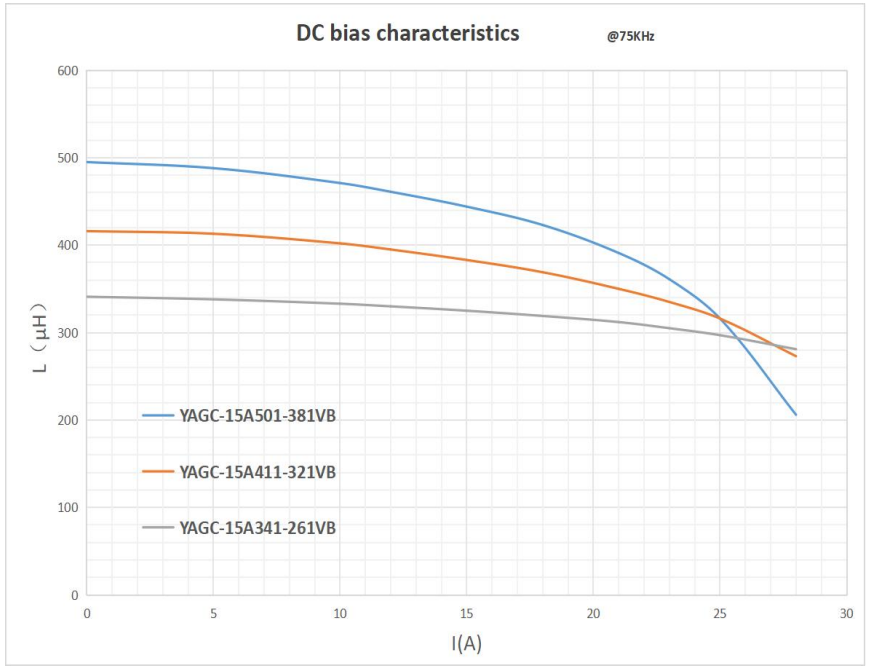
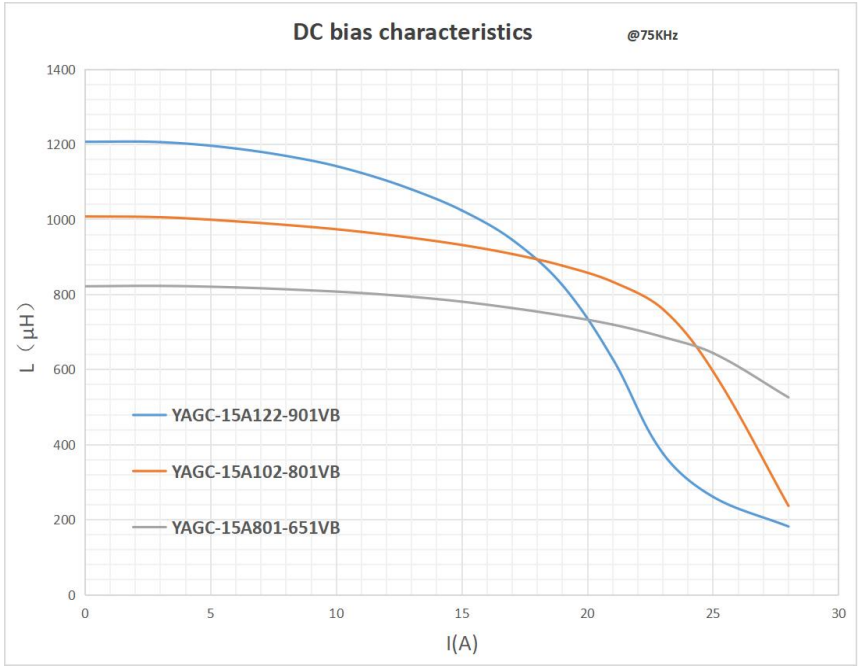

DC bias characteristics
@75KHz
L（μH）
I(A)
YAGC-15A501-381VB
YAGC-15A411-321VB
YAGC-15A341-261VB


DC bias characteristics
@75KHz
L（μH）
I(A)
YAGC-15A122-901VB
YAGC-15A102-801VB
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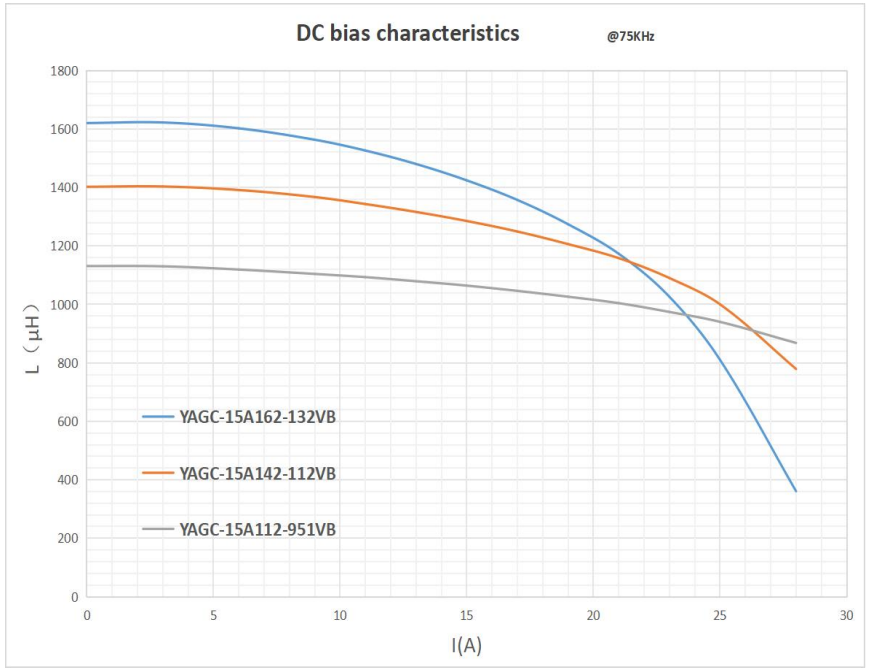
DC bias characteristics
@75KHz
L（μH）
I(A)
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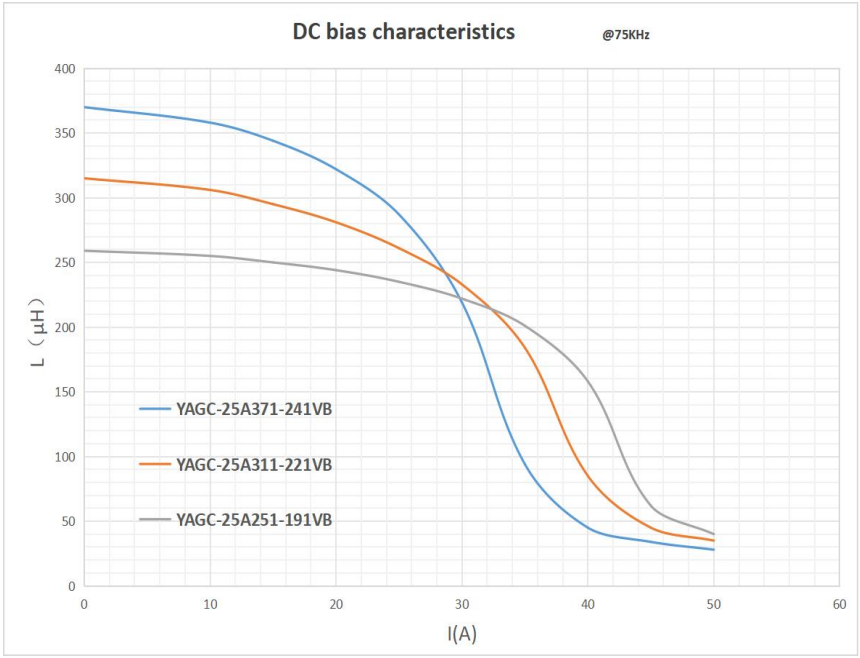
YAGC-15A142-112VB
YAGC-15A112-951VB


DC bias characteristics
@75KHz
L（μH）
I(A)
YAGC-25A371-241VB
YAGC-25A311-221VB
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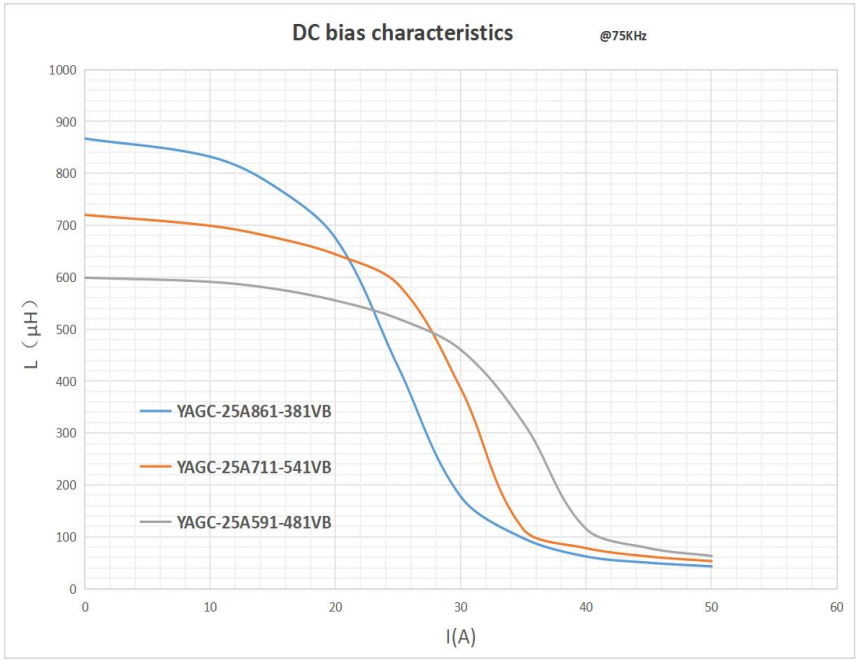
DC bias characteristics
@75KHz
L（μH）
I(A)
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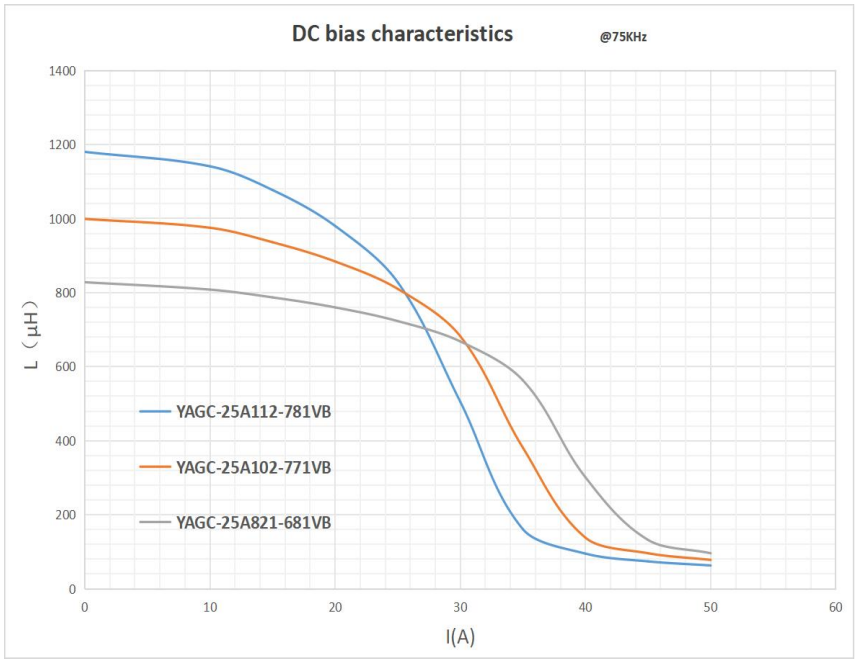
YAGC-25A711-541VB
YAGC-25A591-481VB


DC bias characteristics
@75KHz
L（μH）
I(A)
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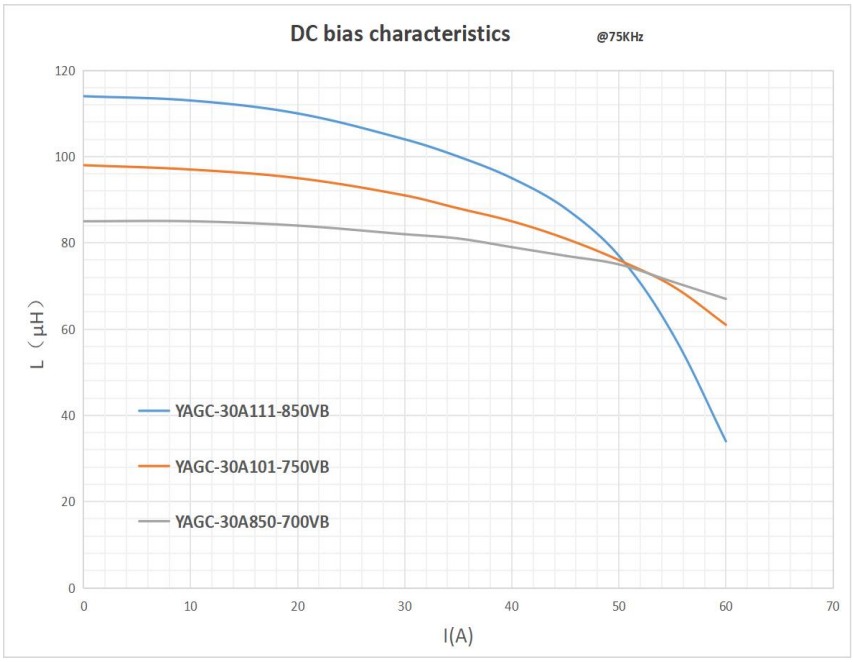
YAGC-25A102-771VB
YAGC-25A821-681VB


DC bias characteristics
@75KHz
L（μH）
I(A)
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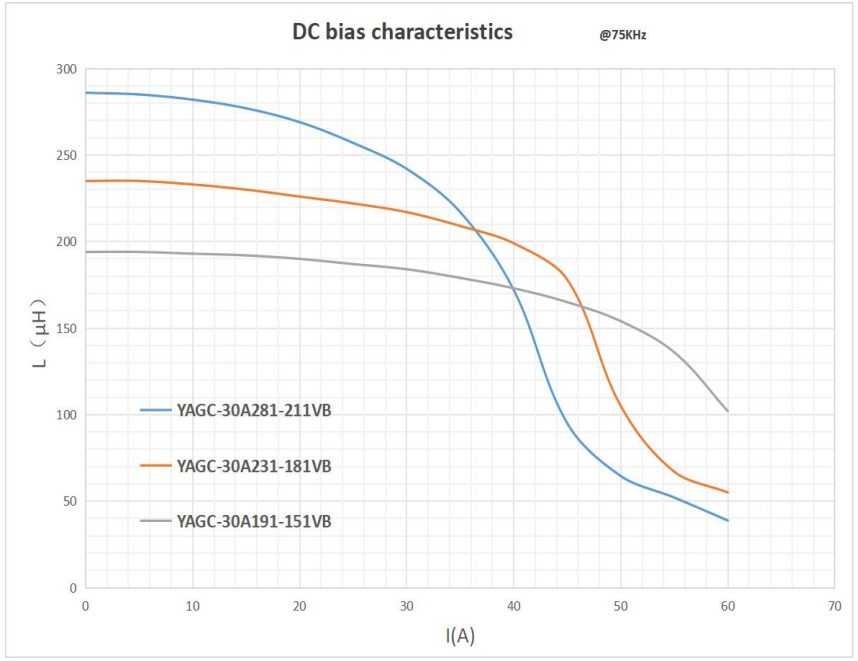
YAGC-30A850-700VB


DC bias characteristics
@75KHz
L（μH）
I(A)
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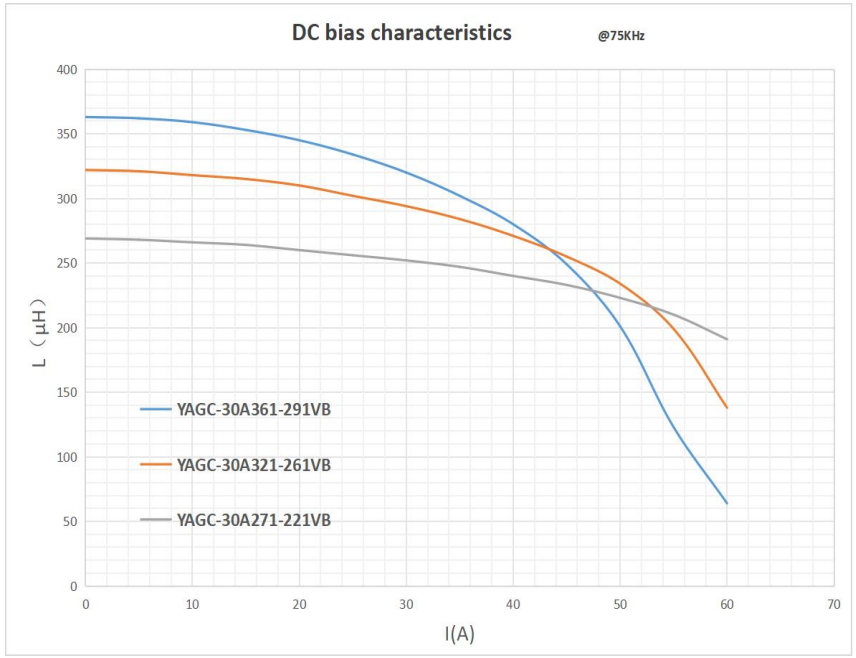
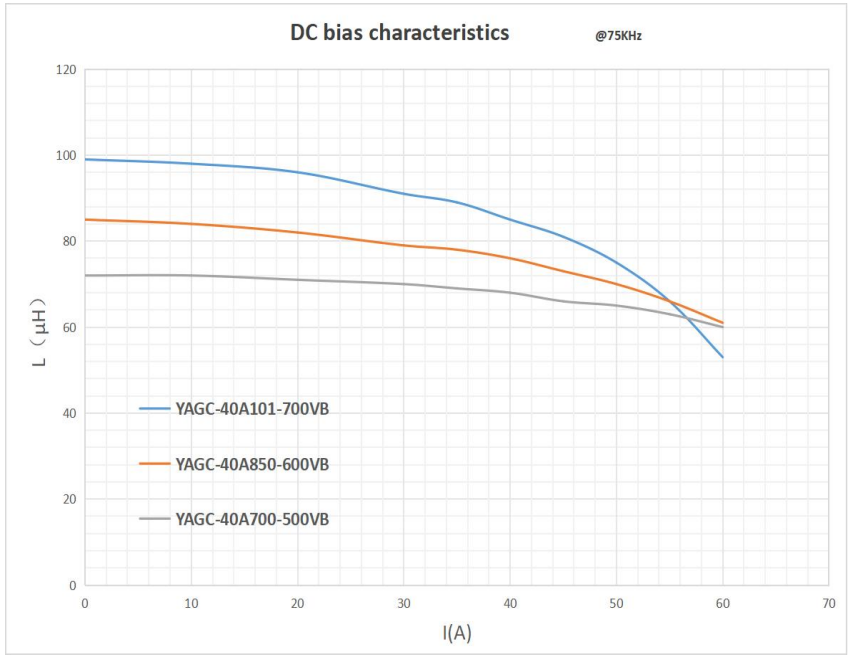
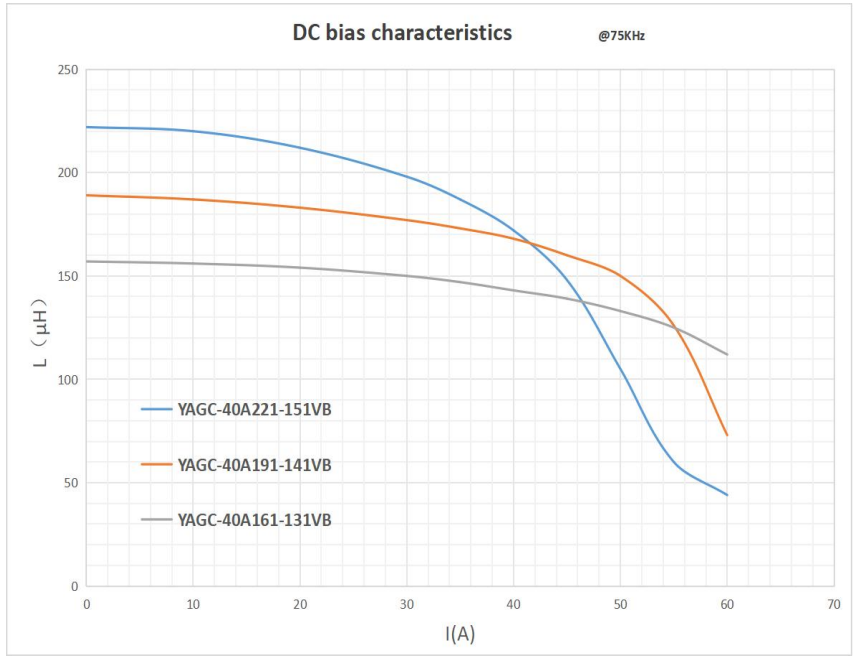
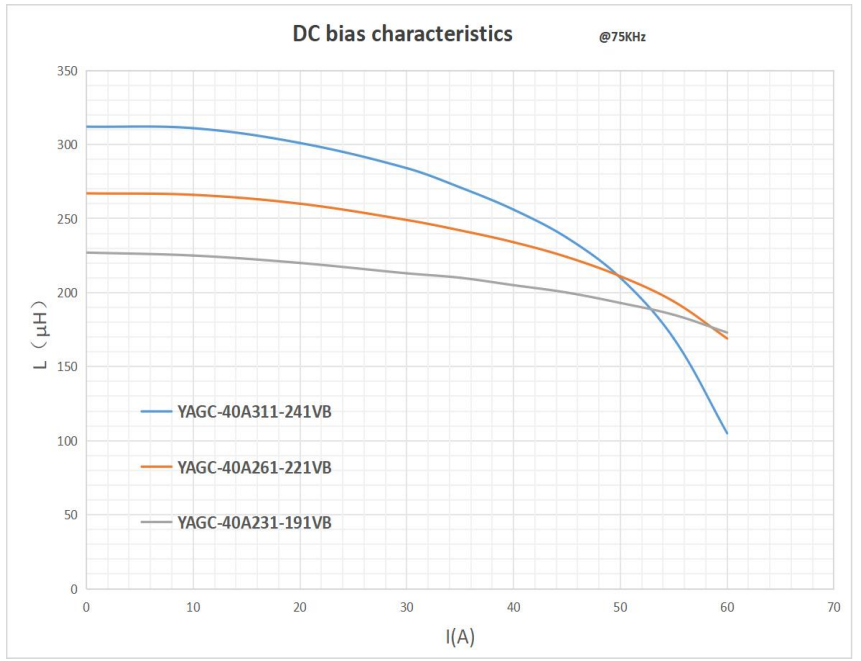
YAGC-30A231-181VB
YAGC-30A191-151VB









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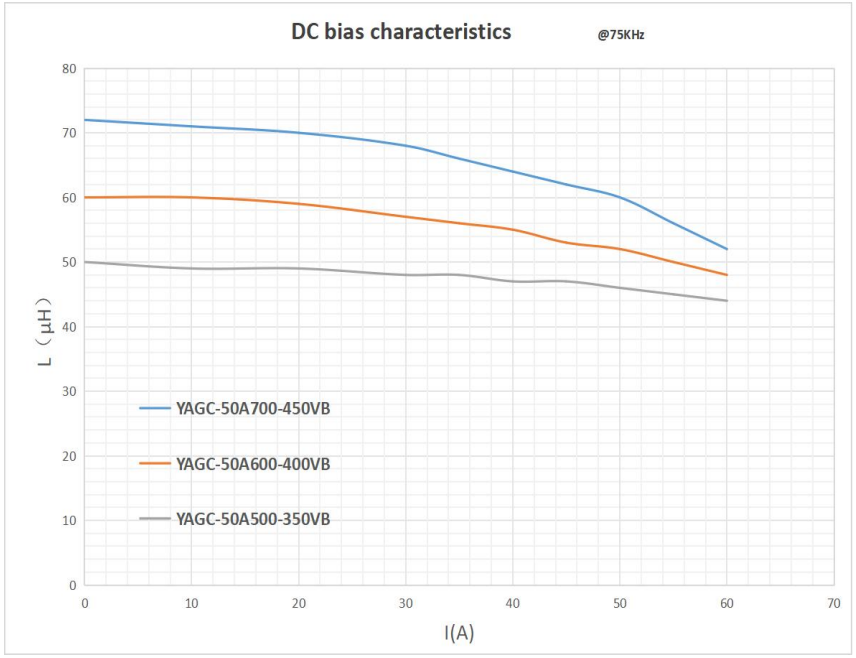

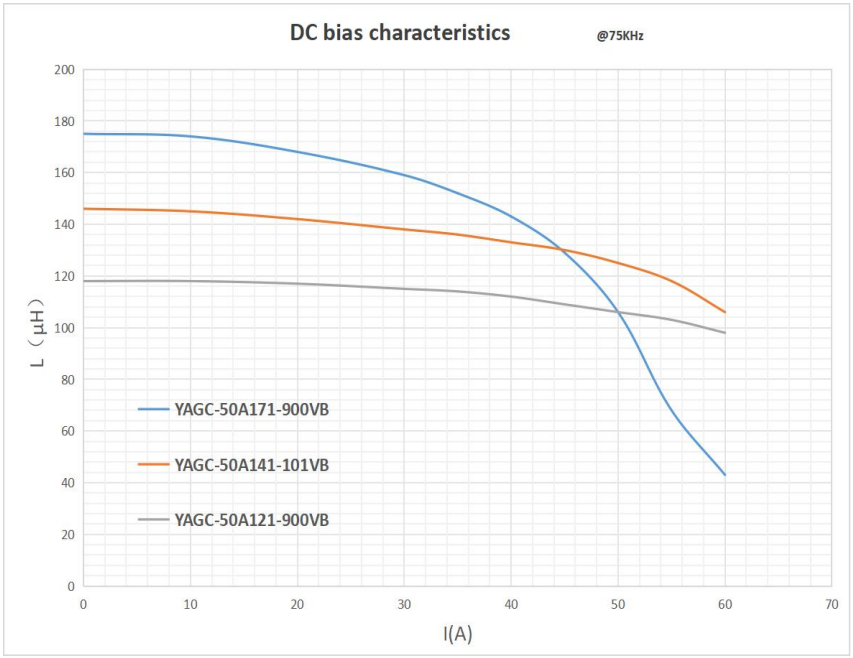

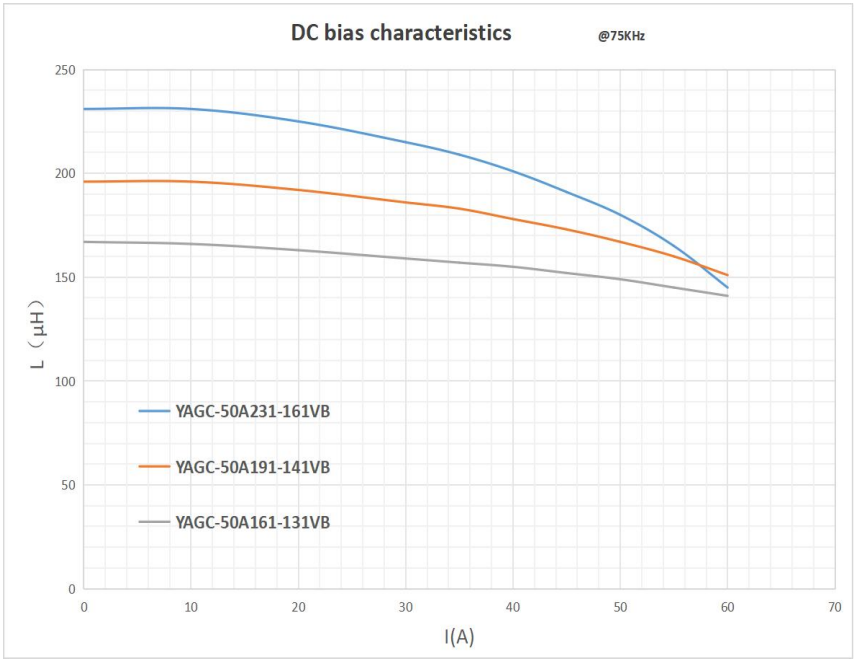

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