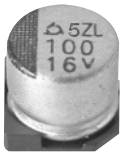
BLA Series

• 105℃ 5,000Hrs assured.

Solvent-proof

- Vertical SMD type.
- Long life of BDA Series.
- For LED MT, AVN.
- RoHS compliant.
- Halogen-free capacitors are also available.

BDA → BLA
Long life



SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	4 ~ 400 VDC
Operating Temperature Range	-40 ~ +105℃
Capacitance Tolerance	±20%(M) (at 20℃, 120Hz)
Leakage Current	Rated Voltage(VDC): 6.3~100 / 160~400 Max. Leakage current(μA): 0.01CV (μA) or 3μA, whichever is greater. (at 20℃, 2 minutes) / 0.04CV+100(μA) (at 20℃, 1 minute)
Dissipation Factor (Tanδ)	(at 20℃, 120Hz)
Temperature Characteristics (Max. Impedance ratio)	(at 120Hz)
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 5,000 hours at 105℃. Capacitance change ≦ ±30% of the initial value Tanδ ≦ 300% of the initial specified value Leakage current ≦ The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≦ ±30% of the initial value Tanδ ≦ 300% of the initial specified value Leakage current ≦ The initial specified value
Others	Satisfied characteristics KS C IEC 60384-4

Rated voltage(VDC)	4	6.3	10	16	25	35	50	50~100	160~250	400
Tanδ(Max.)	0.37	0.28	0.24	0.20	0.16	0.13	0.12	0.12	0.15	0.20

Rated voltage(VDC)	4	6.3	10	16	25~50	63~100	160~250	400
Z(-25℃)/Z(+20℃)	8	4	3	2	2	3	3	6
Z(-40℃)/Z(+20℃)	14	10	7	5	3	4	6	18

PART NUMBERING SYSTEM

BLA 16 VC 100 M F60 TP

- TP: With tape
- F60: Case code
- M: Capacitance tolerance(±20%)
- 100: Nominal capacitance code (ex. 0.1μF:R1, 1.0μF:1, 4.7μF:4R7, 10μF:10)
- VC: Lead type
- 16: Rated voltage in volts
- BLA: Series name

RATED RIPPLE CURRENT MULTIPLIERS

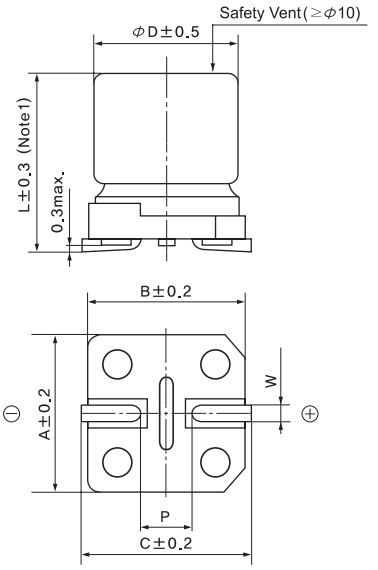
Frequency Multipliers

Freq.(Hz)	120	1K	10K	100K
Factor	1.00	1.05	1.08	1.08

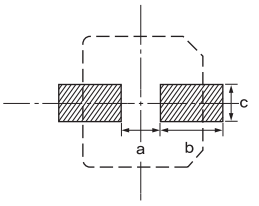
DIMENSIONS OF BLA Series

Unit(mm)

DIMENSIONS

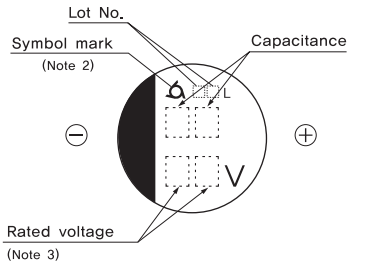


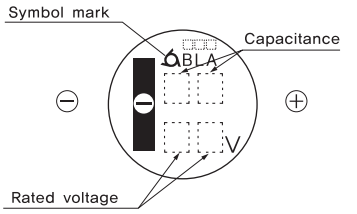
Recommended solder land on PC board



: Solder land on PC board

MARKING





Note 1 : L±0.5 for 8×10(H10), 10×10(J10)
Note 2 : 4×5.2(D55), 5×5.2(E55) is excluded symbol mark
Note 3 : 6.3WV is marked by 6V

Case code	ø D	L	A	B	C	W	P	a	b	c
D55	4	5.2	4.3	4.3	5.1	0.5-0.8	1.0	1.0	2.6	1.6
E55	5	5.2	5.3	5.3	5.9	0.5-0.8	1.4	1.4	3.0	1.6
F55	6.3	5.2	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
F60	6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
F80	6.3	7.7	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
H10	8	10	8.3	8.3	9.0	0.7-1.1	3.1	3.1	4.2	2.2
J10	10	10	10.3	10.3	11.0	0.7-1.1	4.5	4.5	4.4	2.2
K14	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	4.0	5.7	2.5

RATINGS OF BLA Series

WVDC / μF	4		6.3		10		16		25		35		50		63		100	
0.1													D55	1.3				
0.22													D55	2.6				
0.33													D55	3.2				
0.47													D55	3.8				
1													D55	5.6				
2.2													D55	10				
3.3													D55	14				
4.7									D55	13	D55	15	E55	19				
10							D55	16	E55	25	E55	25	F55	29	F60	32	H63	48
22	D55	19	D55	21	E55	30	E55	30	F55	40	F55	40	F60	43	H10	69	H10	91
33	E55	30	E55	34	E55	34	F55	45	F55	45	F80	57	H10	77	J10	96	J10	127
47	E55	34	E55	36	F55	48	F55	48	F60	52	H10	92	H10	92	J10	114	K14	193
100	E55	45	F60	56	F60	90	F60	110	H10	116	J10	151	J10	151	K14	212	K14	281
220					F80	120	H10	140	J10	216	J10	216	K14	221				
330					H10	170	J10	238	J10	238	K14	271						
470					J10	254	J10	254	K14	324								
1,000					K14	472	K14	472										

WVDC / μF	160		200		250		400	
2.2							J10	26
3.3					J10	46	J10	37
4.7			J10	54	K14	65	K14	70
10	J10	79	J10	79	K14	102		
22	K14	148	K14	148				
33	K14	182						

Rated Ripple Current (mArms/105°C, 120Hz)
Case code