



BLA Series

• 105°C 5,000Hrs assured.

- Vertical SMD type.
- Long Life.
- For LED MT, AVN.
- RoHS compliant.
- Halogen-free capacitors are also available.
- AEC-Q200 compliant : Please contact us for more details, test data, information.

Solvent-proof

$WV \leq 63V_{DC}$

BDA

BLA

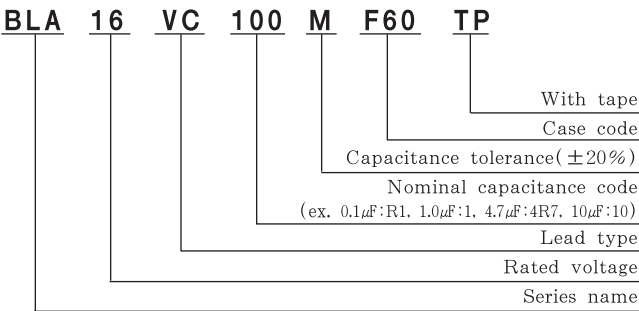
Long Life



SPECIFICATIONS

Item	Characteristics										
Rated Voltage Range	4 ~ 400 V _{DC}										
Operating Temperature Range	-40 ~ +105°C										
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)										
Leakage Current	Rated Voltage(V _{DC})	4~100							160~400		
	Max. Leakage current(μA)	0.01CV (μA) or 3μA , whichever is greater. (at 20°C, 2 minutes)							0.04CV+100(μA) (at 20°C, 1 minute)		
Dissipation Factor(Tanδ)											
	Rated voltage(V _{DC})	4	6.3	10	16	25	35	50	63~100	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
(at 20°C, 120Hz)											
Temperature Characteristics (Max. Impedance ratio)											
	Rated voltage(V _{DC})	4	6.3	10	16	25~50	63~100	160~250	400		
	Z(-25°C)/Z(+20°C)	8	4	3	2	2	3	3	6		
Z(-40°C)/Z(+20°C) 14 10 7 5 3 4 6 10											
(at 120Hz)											
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 5,000 hours at 105°C. Capacitance change ≤ ±30% of the initial value Tan δ ≤ 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°C after exposing them for 1,000 hours at 105°C 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 Tan δ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value										
Others	Satisfied characteristics KS C IEC 60384-4										

PART NUMBERING SYSTEM



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

<D55 ~ J10>

<K14>

Note 1 : $L \pm 0.5$ for 8×10 (H10)~ 12.5×13.5 (K14)
 Note 2 : 4×5.2 (D55), 5×5.2 (E55) is excluded symbol mark.
 Note 3 : 6.3WV is marked by 6V.

Case code	φD	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
H63	8	6.3	8.3	8.3	9.0	0.5~0.8	2.3	2.3	4.5	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

Vdc	4		6.3		10		16		25		35		50		63		100	
μF																		
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										

Vdc	160		200		250		400	
μF								
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 (mA rms/105°C, 120Hz)

↑ Case code