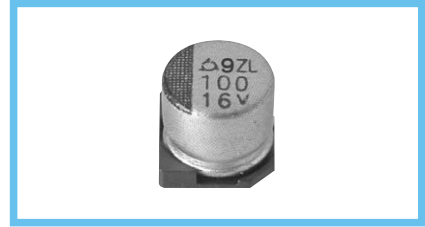
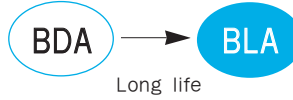


## BLA Series

• 105°C 5,000Hrs assured.

Solvent-proof

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

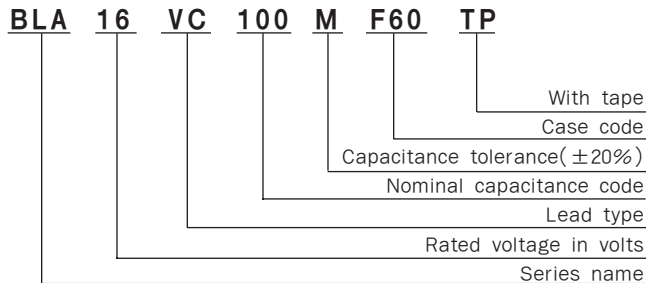


### SPECIFICATIONS

Item	Characteristics																		
Rated Voltage Range	4 ~ 50 V <sub>DC</sub>																		
Operating Temperature Range	-40 ~ +105°C																		
Capacitance Tolerance	±20%(M) <span style="float: right;">(at 20°C, 120Hz)</span>																		
Leakage Current	I = 0.01CV(μA) or 3μA, whichever is greater. Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V <sub>DC</sub> ) <span style="float: right;">(at 20°C, 2 minutes)</span>																		
Dissipation Factor Tan δ(Max.)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>Rated voltage(V<sub>DC</sub>)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tan δ(Max.)</td> <td>0.37</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.13</td> <td>0.12</td> </tr> </table> <span style="float: right;">(at 20°C, 120Hz)</span>	Rated voltage(V <sub>DC</sub> )	4	6.3	10	16	25	35	50	Tan δ(Max.)	0.37	0.28	0.24	0.20	0.16	0.13	0.12		
Rated voltage(V <sub>DC</sub> )	4	6.3	10	16	25	35	50												
Tan δ(Max.)	0.37	0.28	0.24	0.20	0.16	0.13	0.12												
Temperature Characteristics (Max. Impedance ratio)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>Rated voltage(V<sub>DC</sub>)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25~50</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>8</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>14</td> <td>10</td> <td>7</td> <td>5</td> <td>3</td> </tr> </table> <span style="float: right;">(at 120Hz)</span>	Rated voltage(V <sub>DC</sub> )	4	6.3	10	16	25~50	Z(-25°C)/Z(+20°C)	8	4	3	2	2	Z(-40°C)/Z(+20°C)	14	10	7	5	3
Rated voltage(V <sub>DC</sub> )	4	6.3	10	16	25~50														
Z(-25°C)/Z(+20°C)	8	4	3	2	2														
Z(-40°C)/Z(+20°C)	14	10	7	5	3														
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																		

BLA Series

### PART NUMBERING SYSTEM



Capacitance	Code
0.1μF	R1
0.47μF	R47
1.0μF	1
4.7μF	4R7
10μF	10
100μF	100



# SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

## DIMENSIONS OF BLA Series (Type : VC)

Unit(mm)

### DIMENSIONS

### MARKING

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

Case code	$\phi D$	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	0.7-1.1	3.1	3.1	4.2	2.2
J10	10	10	10.3	10.3	11	0.7-1.1	4.5	4.5	4.4	2.2

### Recommended solder land on PC board

: Solder land on PC board

## RATINGS OF BLA Series

Vdc / $\mu F$	4		6.3		10		16		25		35		50	
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
22	D55	19	D55	21	E55	30	E55	30	F55	40	F55	40	F60	43
33	E55	30	E55	34	E55	34	F55	45	F55	45	F80	57	H10	77
47	E55	34	E55	36	F55	48	F55	48	F60	52	H10	92	H10	92
100	E55	45	F60	56	F60	90	F60	110	H10	116	J10	151	J10	151
220					F80	120	H10	140	J10	216	J10	216		
330					H10	170	J10	238	J10	238				
470					J10	254	J10	254						

