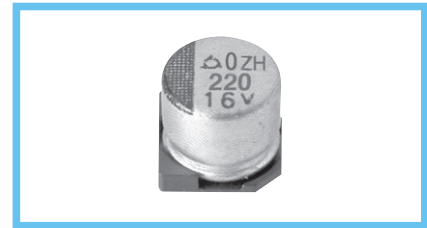


## BLH Series

• 105°C 10,000Hrs assured.

Solvent-proof

- Vertical SMD type.
- Long Life.
- For LED MT/TV, AVN.
- RoHS compliant.
- Halogen-free capacitors are also available.

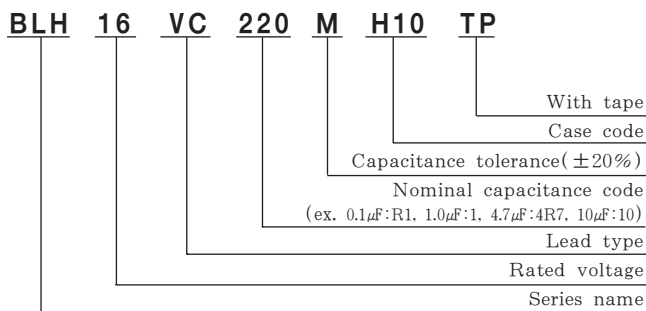


### SPECIFICATIONS

Item	Characteristics												
Rated Voltage Range	10 ~ 50 V <sub>DC</sub>												
Operating Temperature Range	-40 ~ +105°C												
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)												
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> ) (at 20°C, 2 minutes)												
Dissipation Factor(Tan δ)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="font-size: 8px;">Rated voltage(V<sub>DC</sub>)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td style="font-size: 8px;">Tan δ(Max.)</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.13</td> <td>0.12</td> </tr> </table> <p style="text-align: right; font-size: 8px;">(at 20°C, 120Hz)</p>	Rated voltage(V <sub>DC</sub> )	10	16	25	35	50	Tan δ(Max.)	0.24	0.20	0.16	0.13	0.12
Rated voltage(V <sub>DC</sub> )	10	16	25	35	50								
Tan δ(Max.)	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 style="font-size: 8px;">Rated voltage(V<sub>DC</sub>)</td> <td>10</td> <td>16</td> <td>25~50</td> </tr> <tr> <td style="font-size: 8px;">Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td style="font-size: 8px;">Z(-40°C)/Z(+20°C)</td> <td>7</td> <td>5</td> <td>3</td> </tr> </table> <p style="text-align: right; font-size: 8px;">(at 120Hz)</p>	Rated voltage(V <sub>DC</sub> )	10	16	25~50	Z(-25°C)/Z(+20°C)	3	2	2	Z(-40°C)/Z(+20°C)	7	5	3
Rated voltage(V <sub>DC</sub> )	10	16	25~50										
Z(-25°C)/Z(+20°C)	3	2	2										
Z(-40°C)/Z(+20°C)	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 10,000 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												

BLH Series

### 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 BLH Series

Unit(mm)

### DIMENSIONS

### MARKING

<H10 ~ J10>

<K14>

Case code	φ D	L	A	B	C	W	P	a	b	c
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

### Recommended solder land on PC board

: Solder land on PC board

## RATINGS OF BLH Series

Vdc μF	10		16		25		35		50	
	33									H10
47							H10	92	H10	92
100					H10	116	J10	151	J10	151
220			H10	140	J10	218	J10	216	K14	255
330	H10	170	J10	238	J10	238	K14	301		
470	J10	254	J10	254	K14	324				
1,000	K14	472	K14	472						

