

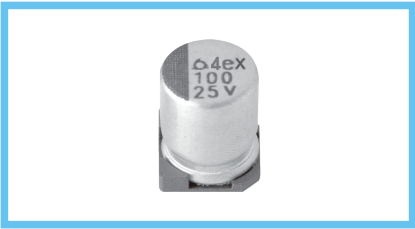
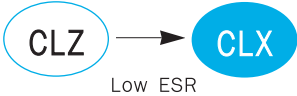


CLX Series

• 125°C 2,000~4000Hrs assured.

Solvent-proof

- Vertical SMD type.
- Wide Temp., Low ESR.
- Suitable to fit for automotive equipment.
- RoHS compliant.
- Halogen-free capacitors are also available.
- AEC-Q200 compliant : Please contact us for more details, test data, information.

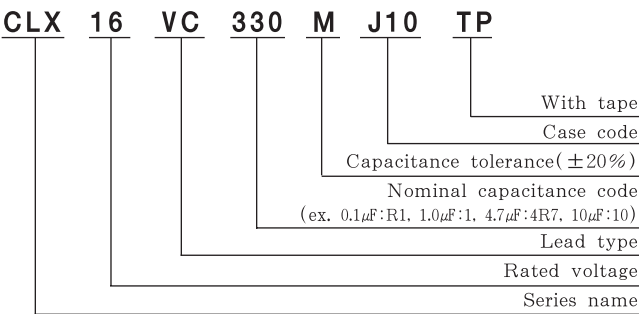


SPECIFICATIONS

Item	Characteristics																				
Rated Voltage Range	10 ~ 50 V _{DC}																				
Operating Temperature Range	-40 ~ +125 °C																				
Capacitance Tolerance	±20%(M)																				
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 _{DC}) (at 20°C, 2 minutes)																				
Dissipation Factor(Tanδ)	<table><tr><td>Rated voltage(V_{DC})</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Tanδ(Max.)</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.16</td></tr></table> (at 20°C, 120Hz)						Rated voltage(V _{DC})	10	16	25	35	50	Tanδ(Max.)	0.24	0.20	0.16	0.14	0.16			
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Temperature Characteristics (Max. Impedance ratio)	<table><tr><td>Rated voltage(V_{DC})</td><td>10</td><td>16</td><td>25</td><td>35, 50</td></tr><tr><td>Z(-25°C)/Z(+20°C)</td><td>4</td><td>3</td><td>2</td><td>2</td></tr><tr><td>Z(-40°C)/Z(+20°C)</td><td>10</td><td>8</td><td>6</td><td>4</td></tr></table> (at 120Hz)						Rated voltage(V _{DC})	10	16	25	35, 50	Z(-25°C)/Z(+20°C)	4	3	2	2	Z(-40°C)/Z(+20°C)	10	8	6	4
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Z(-25°C)/Z(+20°C)	4	3	2	2																	
Z(-40°C)/Z(+20°C)	10	8	6	4																	
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied with the following conditions. H10:2,000hours, J10:3,000hours, K14:4,000hours at 125°C. 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°C after exposing them for 1,000 hours at 125°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 Tanδ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value																				
Others	Satisfied characteristics KS C IEC 60384-4																				

CLX Series

PART NUMBERING SYSTEM

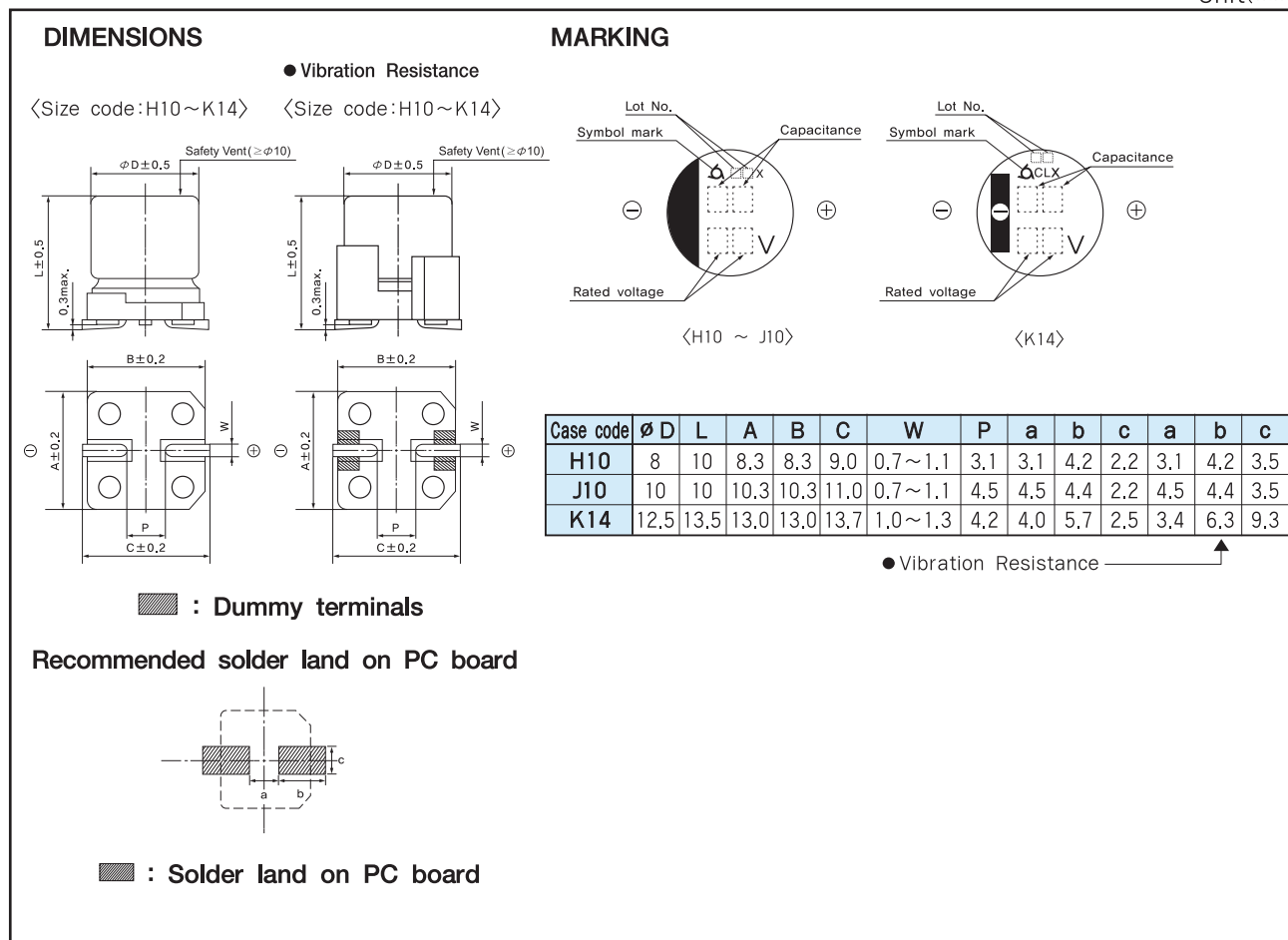


RATED RIPPLE CURRENT MULTIPLIERS

Size code	120	1K	10K	100K
H10 ~ J10	0.93	0.97	1.00	1.00
K14	0.50	0.85	0.94	1.00

DIMENSIONS OF CLX Series

Unit(mm)



RATINGS OF CLX Series

V _{DC} μF	10				16				25				35				50			
33																	H10	0.53	8.0	192
47													H10	0.30	4.5	264	J10	0.38	5.7	296
100									H10	0.30	4.5	264	H10	0.30	4.5	264	J10	0.38	5.7	296
220	H10	0.30	4.5	264	H10	0.30	4.5	264	J10	0.23	3.5	355	J10	0.23	3.5	355	K14	0.18	2.7	650
330	J10	0.23	3.5	355	J10	0.23	3.5	355	K14	0.11	1.7	950	K14	0.11	1.7	950				
470	J10	0.23	3.5	355	K14	0.11	1.7	950												
1,000	K14	0.11	1.7	950																

↑ Rated Ripple Current (mA_{rms}/ 125°C, 100kHz)
 ↑ ESR (Ω max./-40°C, 100kHz)
 ↑ ESR (Ω max./20°C, 100kHz)
 ↑ Case code