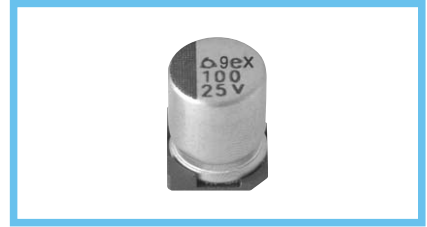
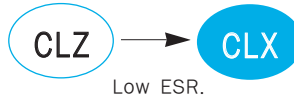


CLX Series

• 125°C 2,000~4000Hrs assured.

Solvent-proof

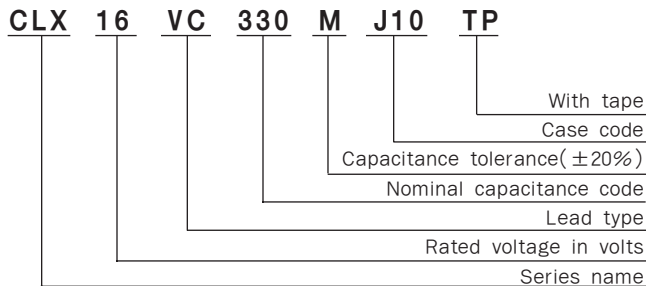
- Vertical SMD type.
- Low ESR of CLZ Series.
- For ECU, ESA
- RoHS compliant.
- Halogen-free capacitors are also available.



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(Max.)	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="text-align: center;">Rated voltage(V_{DC})</td> <td style="text-align: center;">10</td> <td style="text-align: center;">16</td> <td style="text-align: center;">25</td> <td style="text-align: center;">35</td> <td style="text-align: center;">50</td> </tr> <tr> <td style="text-align: center;">Tanδ(Max.)</td> <td style="text-align: center;">0.24</td> <td style="text-align: center;">0.20</td> <td style="text-align: center;">0.16</td> <td style="text-align: center;">0.14</td> <td style="text-align: center;">0.16</td> </tr> </table> <div style="text-align: right; margin-top: 5px;">(at 20°C, 120Hz)</div>	Rated voltage(V _{DC})	10	16	25	35	50	Tanδ(Max.)	0.24	0.20	0.16	0.14	0.16			
Rated voltage(V _{DC})	10	16	25	35	50											
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Temperature Characteristics (Max. Impedance ratio)	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="text-align: center;">Rated voltage(V_{DC})</td> <td style="text-align: center;">10</td> <td style="text-align: center;">16</td> <td style="text-align: center;">25</td> <td style="text-align: center;">35, 50</td> </tr> <tr> <td style="text-align: center;">Z(-25°C)/Z(+20°C)</td> <td style="text-align: center;">4</td> <td style="text-align: center;">3</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">Z(-40°C)/Z(+20°C)</td> <td style="text-align: center;">10</td> <td style="text-align: center;">8</td> <td style="text-align: center;">6</td> <td style="text-align: center;">4</td> </tr> </table> <div style="text-align: right; margin-top: 5px;">(at 120Hz)</div>	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
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												
Load Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied with the following conditions. H10:125°C, 2,000hours, J10:125°C, 3,000hours, K14:125°C, 4,000hours.</p> <p>Capacitance change ≤ ±30% of the initial value</p> <p>Tanδ ≤ 300% of the initial specified value</p> <p>Leakage current ≤ The initial specified value</p>															
Shelf Life	<p>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.</p> <p>Capacitance change ≤ ±30% of the initial value</p> <p>Tanδ ≤ 300% of the initial specified value</p> <p>Leakage current ≤ The initial specified value</p>															
Others	Satisfied characteristics KS C IEC 60384-4															

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 CLX Series(Type : VC)

Unit(mm)

DIMENSIONS

MARKING

<H10 ~ J10>

<K14>

Case code	ø 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 CLX Series

V _{dc} / μF	10			16			25			35			50		
33													H10	0.53	192
47										H10	0.30	264	J10	0.38	296
100							H10	0.30	264	H10	0.23	264	J10	0.38	296
220	H10	0.30	264	H10	0.30	264	J10	0.23	355	J10	0.23	355	K14	0.18	650
330	J10	0.23	355	J10	0.23	355	K14	0.11	950	K14	0.11	950			
470	J10	0.23	355	K14	0.11	950									
1000	K14	0.11	950												

Rated Ripple Current (mA rms/125°C, 100kHz)
 ESR (Ω max./ 20°C, 100kHz)
 Case code