

CLX Series

• 125°C 2,000~4000Hrs assured.

Solvent-proof

CLZ

CLX

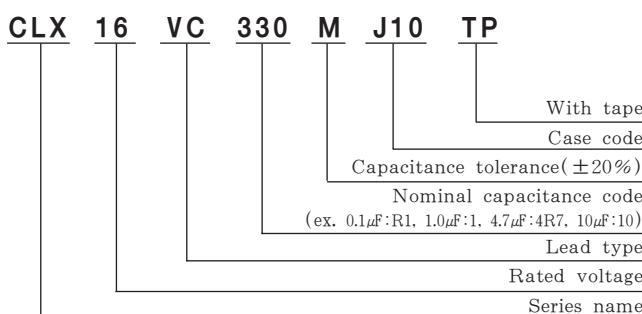
Low ESR



- 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(Tan δ)	Rated voltage(V _{DC})	10	16	25	35	50
	Tan δ(Max.)	0.24	0.20	0.16	0.14	0.16
Temperature Characteristics (Max. Impedance ratio)	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	(at 120Hz)
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. H10:125°C, 2,000hours, J10:125°C, 3,000hours, K14:125°C, 4,000hours. 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 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 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

Size code	Freq.(Hz)	120	1K	10K	100K
		H10 ~ J10	0.93	0.97	1.00

Size code	Freq.(Hz)	120	1K	10K	100K
		K14	0.50	0.85	0.94



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

DIMENSIONS OF CLX Series

Unit(mm)

DIMENSIONS		MARKING			
● Vibration Resistance					
<Size code:H10~K14>		<Size code:H10~K14>			
<p>Front view dimensions for H10 and J10 cases. Top view dimensions for K14 case.</p>		<p>Marking for H10 ~ J10 and K14 cases. Shows Lot No., Symbol mark, Capacitance, Rated voltage, and polarity (-/-, +/+).</p>			
<p>Front view dimensions for H10 and J10 cases. Top view dimensions for K14 case.</p>		<p>Marking for H10 ~ J10 and K14 cases. Shows Lot No., Symbol mark, Capacitance, Rated voltage, and polarity (-/-, +/+).</p>			
Case code					
H10					
J10					
K14					
Ø D					
L					
A					
B					
C					
W					
P					
a					
b					
c					
● Vibration Resistance					
: Dummy terminals					
Recommended solder land on PC board					
<p>Diagram showing recommended solder land on PC board. Dimensions: a = 0.2mm, b = 0.2mm, c = 0.2mm.</p>					
: Solder land on PC board					

RATINGS OF CLX Series

V _{dc} μF	10				16				25				35				50			
33																	H10	0.53	8.0	192
47																	J10	0.38	5.7	296
100																	H10	0.30	4.5	264
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