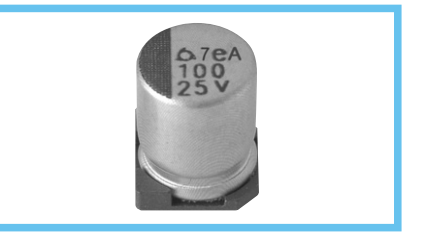
CLA Series

• 125℃ 3,000~5,000Hrs assured.

Solvent-proof

- Vertical SMD type.
- Long life of CDA Series
- For ECU, ESA
- RoHS compliant.

CDA → CLA
Long life



SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	10 ~ 50 V_{DC}
Operating Temperature Range	-40 ~ +125℃
Capacitance Tolerance	±20%(M) (at 20℃, 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_{DC}) (at 20℃, 2 minutes)
Dissipation Factor (Tanδ)	Rated voltage(V_{DC}): 10 / 16 / 25 / 35 / 50 Tanδ(Max.): 0.24 / 0.20 / 0.16 / 0.14 / 0.16 (at 20℃, 120Hz)
Temperature Characteristics (Max. Impedance ratio)	Rated voltage(V_{DC}): 10 / 16 / 25 / 35, 50 Z(-25℃)/Z(+20℃): 4 / 3 / 2 / 2 Z(-40℃)/Z(+20℃): 10 / 8 / 6 / 4 (at 120Hz)
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied with the following conditions. H63 : 125℃, 3,000 hours, H10 ~ M22 : 125℃, 5,000 hours. 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℃ after exposing them for 1,000 hours at 125℃ 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 measurement. Capacitance change ≦ ±30% of the initial value Tanδ ≦ 300% of the initial specified value Leakage current ≦ The initial specified value
Others	Satisfied characteristics W of KS C 6421

PART NUMBERING SYSTEM

CLA 16 VC 330 M J10 TP

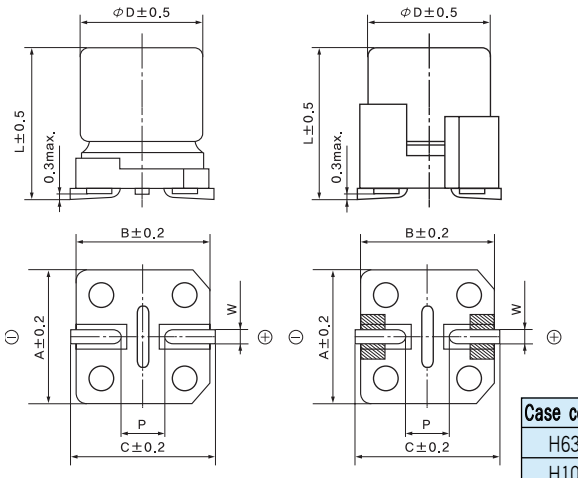
- TP: With tape
- J10: Case code
- M: Capacitance tolerance(±20%)
- 330: Nominal capacitance code
- VC: Lead type
- 16: Rated voltage in volts
- CLA: Series name

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

DIMENSIONS OF CLA Series (Type : VC)

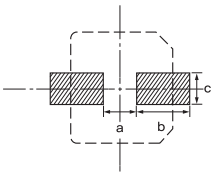
Unit(mm)

DIMENSIONS



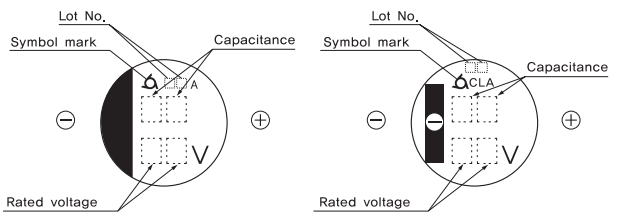
▨ : Dummy terminals

Recommended solder land on PC board



▨ : Solder land on PC board

MARKING



〈H63~J10〉 〈K14〉

Case code	ΦD	L	A	B	C	W	P	a	b	c	a	b	c
H63	8	6.3	8.3	8.3	9.0	0.5~0.8	2.3	2.3	4.5	1.6			
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			
L17	16	16.5	17.0	17.0	18.0	1.0~1.3	6.5	6.0	6.9	2.5	4.7	7.8	9.6
L22	16	21.5	17.0	17.0	18.0	1.0~1.3	6.5	6.0	6.9	2.5			
M17	18	16.5	19.0	19.0	20.0	1.0~1.3	6.5	6.0	7.9	2.5	4.7	8.8	9.6
M22	18	21.5	19.0	19.0	20.0	1.0~1.3	6.5	6.0	7.9	2.5			

● Vibration Resistance

RATINGS OF CLA Series

μF \ V_{DC}	10(1A)		16(1C)		25(1E)		35(1V)		50(1H)	
22									H63	28
33							H63	41	H10	50
47					H63	45	H10	61	J10	70
100	H63	48	H63	50	H10	84	J10	101	K14	250
220	H10	91	H10	100	J10	141	K14	320	L17	372
330	J10	125	J10	145	K14	380	L17	420	L17	455
470	J10	150	K14	430	L17	463	M17	510	M17	570
1,000	K14	480	M17	653	M22	788				
2,200	L17	726								
3,300	M17	930								
4,700	M22	1237								

Rated Ripple Current (mArms/125℃, 120Hz)

Case code