

CV Series Chip type

Features

- ◆ Chip type ,Low impedance
- ◆ Chip type with load life of 7000 hours at +105°C
- ◆ Designed for surface mounting on high density PC board
- ◆ Applicable to automatic mounting machine using carrier tape
- ◆ Complied to the RoHS directive



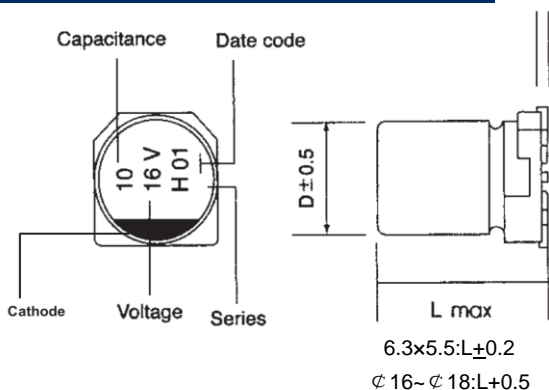
Specifications

Item	Performance Characteristics						
Operating Temperature Range	-25 to +105°C						
Rate voltage Range	6.3~50 VDC						
Capacitance Range	22 to 1500µF						
Capacitance Tolerance	±20%(120Hz,+20°C)						
Leakage Current(+20°C,max.)	I ≤ 0.03 CV or 4 (µA)After 2 minutes whichever is greater measured with rated working voltage applied.						
Dissipation Factor(tanδ) (+20°C, at 120Hz)	Working Voltage(VDC)	6.3	10	16	25	35	50
	D.F.(%)max.	32	28	26	16	14	14
Low Temperature Characteristics (Impedance ratio at 120Hz)	Impedance ratio max.(at:120Hz)						
	Working Voltage(VDC)	6.3	10	16	25	35	50
	Z-25°C/+20°C	4	3	2	2	2	2
Load Life	Test condition						
	Duration time :7000hours						
	Ambient temperature :+105°C						
	Applied voltage :Rated DC working voltage						
	After test requirement at +20°C						
	Capacitance change : Within ±30% of initial value						
	Dissipation factor :Less than 300% of specified value						
Leakage current :Less than specified value							
Shelf Life	Test condition						
	Duration time :1000Hrs						
	Ambient temperature :+105°C						
	Applied voltage :None						
	After test requirement at +20°C:Same limits as Load life.						
Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.							
Resistance to soldering heat	The following specifications shall be satisfied when the capacitors are restored to20°C after exposing them at 250°C for 30 seconds.						
	Leakage current	Less than specified value					
	Capacitance change	Within ±10% of initial value					
	tanδ	Less than specified value					

Multiplier for Ripple Current vs. Frequency

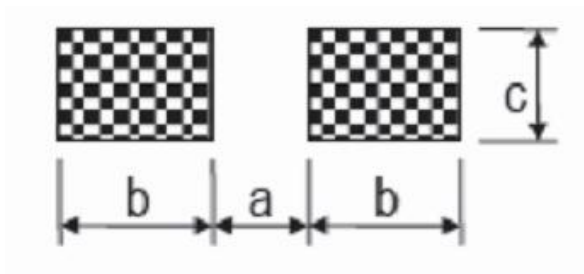
CAP (µF) \ Hz	60(50)	120	500	1K	10K~100K
0.1 ≤Cap ≤100 µF	0.53	0.67	0.8	0.87	1
100 ≤Cap ≤1500 µF	0.67	0.83	0.92	0.96	1

Diagram of Dimensions:(unit:mm)



ΦD	L	A	B	C	W	P
4	5.5	4.3	4.3	4.9	0.5~0.8	1.0
5	5.5	5.3	5.3	5.9	0.5~0.8	1.4
6.3	5.5	6.6	6.6	7.2	0.5~0.8	2.2
6.3	6.1	6.6	6.6	7.2	0.5~0.8	2.2
6.3	7.7	6.6	6.6	7.2	0.5~0.8	2.2
8	6.5	8.3	8.3	9.0	0.5~0.8	2.3
8	10.5	8.3	8.3	9.0	0.7~1.1	3.1
10	10.5	10.3	10.3	11.0	0.7~1.1	4.5
12.5	14	13	13	13.9	1.0~1.4	4.5
16	17	17.1	17.1	18.0	1.0~1.4	7.0
16	21.5	17.1	17.1	18.0	1.0~1.4	7.0
18	16.5	19.1	19.1	20.0	1.0~1.4	7.5
18	21.5	19.1	19.1	20.0	1.0~1.4	7.5

Recommended land pattern:(unit:mm)



$\Phi D \times L$	a	b	c
4 x all	1	2.6	1.6
5 x all	1.4	3	1.6
6.3 x all	2.1	3.5	1.6
8 x 6.5 (height ≤ 6.5)	2.1	4.5	1.6
8 x 6.5 (height > 6.5)	2.8	4.2	1.9
10 x all	4.3	4.4	1.9
12.5 x all	4.3	5.8	2.5
16 x all	6	6.5	3.5
18 x all	6	7.5	3.5

