

JV Series Long Life



Features

- ◆ Chip type long life capacitance in large case sizes
- ◆ Chip type with Endurance of 3000 hours at +105°C
- ◆ Designed for surface mounting on high density PC board
- ◆ Applicable to automatic insertion machine using carrier tape
- ◆ RoHS Compliant

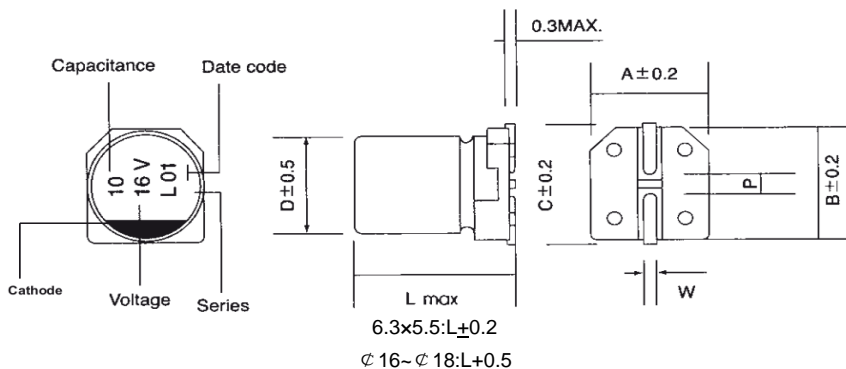
Specifications

Item	Performance Characteristics	
Operating Temperature Range	-55~ +105°C	
Rated Voltage Range	6.3~50 VDC	
Capacitance Range	0.1 to 1000µF	
Capacitance Tolerance	±20%(120Hz,+20°C)	
Leakage Current (+20°C,max.)	$I \leq 0.01 CV$ or 3 (µA) After 2 minutes whichever is greater measured with rated working voltage applied.	
Dissipation Factor (tanδ, at 20°C, 120Hz)	Working Voltage(VDC)	
	D.F.(%)max	
Low Temperature Characteristics (at 120Hz)	Impedance ratio max	
	Rated voltage(VDC)	
	Z-25°C / Z+20°C	
	Z-40°C / Z+20°C	
Endurance	Test conditions	
	Duration time	
	Ambient temperature	
	Applied voltage	
	After test requirement at +20°C:	
	Capacitance change	
	Dissipation factor	
Leakage current		
Shelf Life	Test conditions	
	Duration time	
	Ambient temperature	
	Applied voltage	
	After test requirement at +20°C : Same limits as Endurance.	
Resistance to soldering heat	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 250°C for 30 seconds.	
	Leakage	Less than specified value
	Capacitance	Within ±10% of initial value
	tanδ	Less than specified value

Multiplier for Ripple Current vs. Frequency

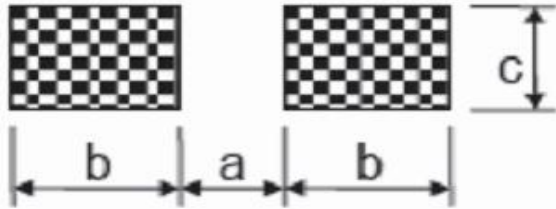
CAP(µF) \ Frequency(Hz)	60(50)	120	500	1K	≧10K
0.1 ≧ CAP ≧ 100µF	0.8	1.0	1.20	1.30	1.50
100 < CAP ≧ 1000µF	0.8	1.0	1.10	1.15	1.20

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	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	13.0	13.0	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

