

JV Series Long Life, High CV

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



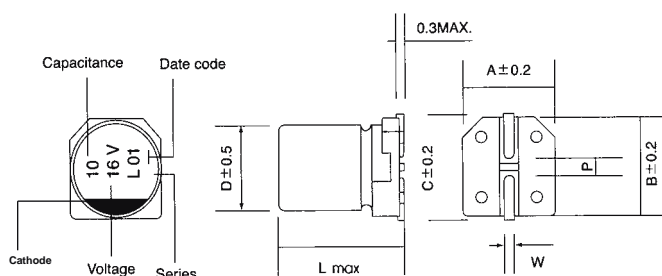
Specifications

Item	Performance Characteristics						
Operating Temperature Range	-55~+105°C						
Rated Voltage Range	6.3~50 VDC						
Capacitance Range	0.1 to 1000 μ F						
Capacitance Tolerance	$\pm 20\%$ (120Hz,+20°C)						
Leakage Current (+20°C,max.)	$I \leq 0.01$ CV or 3 (μ A)After 2 minutes whichever is greater measured with rated working voltage applied.						
Dissipation Factor ($\tan \delta$, at 20°C , 120Hz)	Working Voltage(VDC)	6.3	10	16	25	35	50
	D.F.(%)max.	28	24	20	16	13	12
Low Temperature Characteristics (at 120Hz)	Impedance ratio max (at: 120Hz)						
	Working voltage(VDC)	6.3	10	16	25	35	50
	Z-25°C / Z+20°C	4	3	2	2	2	2
Endurance	Test condition						
	Duration time	: 3000 Hrs					
	Ambient temperature	:+105°C					
Shelf Life	Test condition						
	Duration time	:1000 Hrs					
	Ambient temperature	:+105°C					
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 current	Less than specified value					
	Capacitance change	Within $\pm 10\%$ of initial value					
	$\tan \delta$	Less than specified value					

Multiplier for Ripple Current vs. Frequency

CAP(μ F)\Frequency(Hz)	60(50)	120	500	1K	$\geq 10K$
$0.1 \leq CAP \leq 100 \mu F$	0.8	1.0	1.20	1.30	1.50
$100 < CAP \leq 1000 \mu F$	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

Case Size

φ DxL(mm)

WV Cap(μF)	6.3		10		16		25		35		50	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											4X5.5	1.0
0.22											4X5.5	2.6
0.33											4X5.5	3.2
0.47											4X5.5	5.0
1.0											4X5.5	8.0
2.2											4X5.5	12
3.3											4X5.5	17
4.7							4X5.5	16	4X5.5	16	5X5.5	22
10					4X5.5	18	4X5.5	26	5X5.5	27	6.3X5.5	33
22	4X5.5	22	5X5.5	30	5X5.5	31	6.3X5.5	44	6.3X5.5	45	6.3X7.7	58
33	5X5.5	33	5X5.5	35	6.3X5.5	48	6.3X5.5	50	6.3X7.7	58	8X10.5	140
47	5X5.5	36	6.3X5.5	52	6.3X5.5	51	6.3X7.7	66	8X10.5	93	8X10.5	170
100	6.3X5.5	68	6.3X7.7	81	6.3X7.7	83	8X10.5	118	10X10.5	155	10X10.5	300
220	6.3X7.7	120	8X10.5	142	10X10.5	222	10X10.5	300	10X10.5	340		
330	8X10.5	230	10X10.5	280	10X10.5	305	10X10.5	395				
470	10X10.5	290	10X10.5	305	10X10.5	330						
1000	10X10.5	360										

Ripple Current (mA, rms) at 105°C 120Hz