

VJ Series

Features

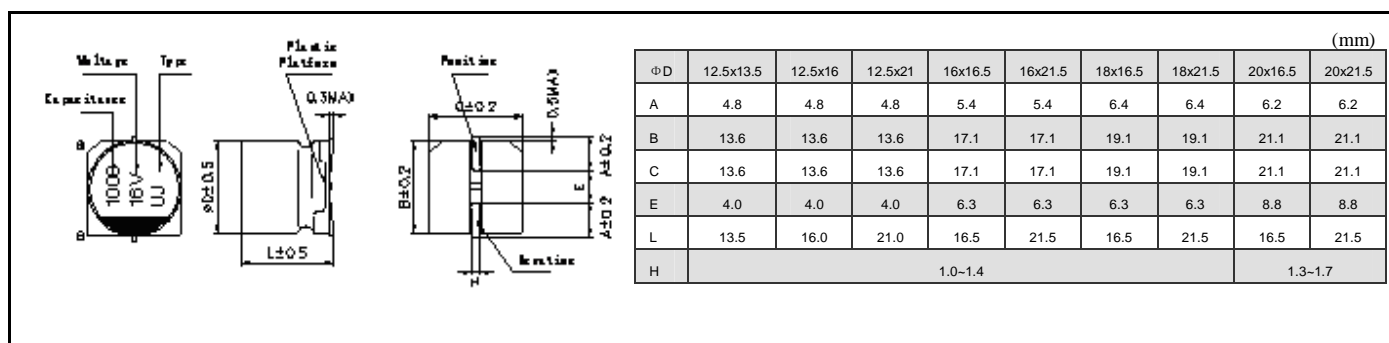
- ◆ Higher capacitance in larger case sizes (Φ12.5, Φ16, Φ18, Φ20), 5000 hours at 105°C .
- ◆ Chip Type Aluminum Electrolytic Capacitors.
- ◆ Reflow soldering is available .
- ◆ available for high density surface mountin .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics										
Temperature Range	-55℃ ~+105℃ (6.3~+100V), -40~+105℃ (160~450V)										
Rated Voltage Range	6.3V ~ 450Vdc										
Capacitance Range	3.3 ~ 6800μF										
Capacitance Tolerance	±20%（20℃， 120Hz）										
Leakage Current (+20℃,max.)	6.3V~100V							160V~450V			
	I≤0.03C _R U _R or 4(μA) Whichever is greater(at 20℃, after 1 minutes) C _R : Nominal Capacitance (μF) U _R : Rated voltages (V)							I = 0.04 C _R U _R +100 (μA) max. (1 minutes)			
Dissipation Factor (Max) (tgδ) 20℃, 120Hz	U _R (V)	6.3	10	16	25	35					
	tgδ	0.26	0.22	0.18	0.16	0.14					
	U _R (V)	50	63	100	160~250	400~450					
	tgδ	0.12	0.10	0.08	0.15	0.20					
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.										
Endurance	After 5000 hours' application of rated voltage at 105℃, the capacitor shall meet the following requirement:										
	Capacitance Change		Within ±20% of the initial value								
	Dissipation Factor		Not more than 200% of the initial specified value								
	Leakage Current		Not more than the initial specified value								
Shelf Life	After storage for 1000 hours at +105℃, the capacitors shall meet the requirement of load life above										
Low Temperature Stability Impedance Ratio (120Hz)	U _R (V)	6.3	10	16	25	35	50	63	100	160~250	400~450
	Z(-25℃)/Z(+20℃)	5	4	3	2	2	2	2	2	3	6
	Z(-55℃)/Z(+20℃)	10	8	6	4	3	3	3	3	6	10
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement.										
	Capacitance Change		Within ±10% of the initial value								
	Dissipation Factor		Not more than the initial specified value								
	Leakage Current		Not more than the initial specified value								

Diagram of Dimensions



Nominal capacitance, rated voltage, rated ripple current and case size table

Voltage	6.3		10		16		25		35		50	
Cap(μF)	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA
220									12.5×13.5	280	12.5×16	320
330							12.5×13.5	320	12.5×16	360	16×16.5	440
470					12.5×13.5	360	12.5×16	400	16×16.5	490	18×16.5	550
1000					16×16.5	630	18×16.5	700	18×16.5	750	18×21.5	820
2200	16×16.5	750	16×16.5	810	18×16.5	930	18×21.5	1050	20×21.5	1150		
3300	18×16.5	930	18×16.5	1000	18×21.5	1150						
4700	18×21.5	1100	18×21.5	1200								
6800	20×21.5	1350	20×21.5	1450								

Voltage	63		100		160		200		250		400		450	
Cap(μF)	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA
3.3													12.5×13.5	40
4.7									12.5x13.5	65	12.5x16	50	12.5×16	50
10							12.5x13.5	80	12.5x16	105	16x16.5	85	16×16.5	85
22							12.5x16	105	16x16.5	180	18x21.5	130	18×21.5	130
33					12.5x13.5	95	16x16.5	220	18x16.5	230	20x21.5	160	20×21.5	160
47			12.5×13.5	160	16x16.5	260	18x16.5	270	18x21.5	280				
68	12.5×13.5	175	12.5×16	205	18x16.5	320	18x21.5	330	20x21.5	340				
100	12.5×16	225	16×16.5	285	16x21.5	380	20x21.5	410						
220	16×16.5	385	18×16.5	440										
330	18×16.5	490	20×21.5	500										
470	18×21.5	590												

Max Allowable Ripple Current (mA, rms) at 105°C 120Hz, Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices .

Frequency coefficient of ripple current

V	Freque	50Hz	120Hz	300Hz	1KHz	10KHz or more
	ncy Cap(μF)					
6.3~100	<68	0.75	1.00	1.35	1.57	2.00
	100~470	0.80	1.00	1.23	1.34	1.50
	1000~6800	0.85	1.00	1.10	1.13	1.15
160~450	3.3~100	0.80	1.00	1.25	1.40	1.60