

V3M

- ◆ 105°C 2000~5000 Hours
- ◆ Low ESR, Flat Type, High Capacitance
- ◆ Available For High Density And Full Automatic Surface Mounting
- ◆ And High Temperature Reflow Welding
- ◆ RoHS Compliant
- ◆ AEC-Q200 Qualified, Please Consult Us For More Details



■ Specification

Items	Characteristics										
Operation Temperature Range	≤100V.DC -55°C ~ +105°C ; 160V.DC -40°C ~ +105°C										
Rated Voltage	6.3 ~ 160V.DC										
Capacitance Tolerance	±20%(25±2°C 120Hz)										
Leakage Current(μA)	6.3WV~100WV I≤0.01CV or 3μA whichever is greater C:rated capacitance(μF) V:rated voltage(V) 2 minutes reading 160WV I≤0.02CV+10(μA) C:rated capacitance(μF) V:rated voltage(V) 2 minutes reading										
Dissipation Factor (25±2°C 120Hz)	Rated Voltage(V)	6.3	10	16	25	35	50	63	80	100	160
	tgδ	0.26	0.19	0.16	0.14	0.12	0.12	0.12	0.12	0.12	0.14
For those with rated capacitance larger than 1000μF, when the rated capacitance is increased by 1000μF, then tgδ will be increased by 0.02											
Temperature Characteristics (120Hz)	Rated Voltage(V)	6.3	10	16	25	35	50	63	80	100	160
	Z(-40°C)/Z(20°C)	3	3	3	3	3	3	5	5	5	5
Endurance	After standard test time with applying the rated voltage with the rated ripple current in the oven at 105°C, the following specification shall be satisfied after 16 hours at 25±2°C.										
	Capacitance change	within±30% of the intial value									
	Dissipation Factor	Not more than 300% of the specified value									
	Leakage current	Not more than the specified value									
	Load life(hours)	≤Φ10 2000hrs					>Φ10 5000hrs				
Shelf Life At High Temperature	After leaving capacitors under no load at 105°C for 1000 hours, the following specification shall be satisfied at 25±2°C.										
	Capacitance change	within±20% of the intial value									
	Dissipation Factor	Not more than 200% of the specified value									
	Leakage current	Not more than 200% of the specified value									

V3M

■ Standard Size

Voltage (V)	6.3			10			16			25			
	Items	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
22											4×5.8	2.00	160
33											4×5.8	2.00	160
47								4×5.8	2.00	160	5×5.8	0.720	240
68				4×5.8	2.00	160	5×5.8	0.72	240	5×5.8	0.720	240	
100	4×5.8	2.00	160				5×5.8	0.72	240	6.3×5.8	0.520	300	
150				5×5.8	0.72	240	6.3×5.8	0.52	300	6.3×7.7	0.320	600	
220	5×5.8	0.72	240	6.3×5.8	0.52	300	6.3×5.8	0.52	300	6.3×7.7	0.320	600	
330	6.3×5.8	0.52	300	6.3×7.7	0.32	600	6.3×7.7	0.32	600				
470	6.3×7.7	0.32	600	6.3×7.7	0.32	600				8×10	0.16	850	
680	6.3×7.7	0.32	600				8×10	0.16	850				
820										10×10	0.120	1190	
1000				8×10	0.16	850	10×10	0.12	1190				
1500	8×10	0.16	850	10×10	0.12	1190				12.5×13.5	0.116	1420	
2200	10×10	0.12	1190										

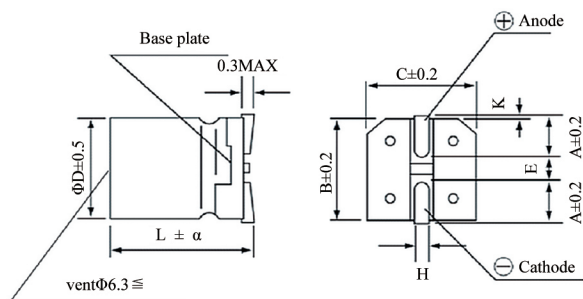
Voltage (V)	35			50			63			80			
	Items	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
10				4×5.8	4.60	85							
10				5×5.8	1.76	165							
22	4×5.8	2.00	160	5×5.8	1.76	165							
33	5×5.8	0.72	240										
47	5×5.8	0.72	240	6.3×5.8	1.36	195							
68	6.3×5.8	0.52	300										
100	6.3×5.8	0.52	300	6.3×7.7	0.68	350							
150	6.3×7.7	0.32	600										
220				8×10	0.36	670					12.5×13.5	0.36	1050
330	8×10	0.16	850	10×10	0.24	900							
470				12.5×13.5	0.24	1340	12.5×16.5	0.28	1250	16×16.5	0.20	1500	
560	10×10	0.12	1190										
680							16×16.5	0.164	1740	16×21	0.132	2040	
820							18×16.5	0.16	1880	18×21	0.126	2140	
1000	12.5×14.5	0.116	1420	16×16.5	0.160	1820							
1200							16×21	0.108	2430				
1500				16×21	0.100	2440							

V3M

■ Standard Size

Voltage (V)	100			160			
	Items	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
100					12.5×16.5	4.60	1040
150	12.5×13.5	0.36	1050	16×21	3.28	1520	
220	12.5×16.5	0.22	1250	18×21	2.58	2140	
330	16×16.5	0.20	1500				
470	16×21	0.132	2040				
560	18×21	0.126	2140				

■ Standard Size (Unit: mm)



ΦD	L	B	C	A	H	E	K	α
4	5.8	4.3	4.3	1.8	0.75±0.10	1.0	0.5MAX	±0.3
5	5.8	5.3	5.3	2.1	0.75±0.10	1.5	0.7MAX	±0.3
6.3	5.8	6.6	6.6	2.6	0.75±0.10	1.8	0.7MAX	±0.3
6.3	7.7	6.6	6.6	2.6	0.75±0.10	1.8	0.7MAX	±0.3
8	10	8.3	8.3	3.4	0.90±0.20	3.1	0.7MAX	±0.5
10	10	10.3	10.3	3.5	0.90±0.20	4.4	0.7MAX	±0.5
12.5	13.5	13.0	13.0	4.7	0.90±0.30	4.4	0.7MAX	±1.0
12.5	14.5	13.0	13.0	4.7	0.90±0.30	4.4	0.7MAX	±1.0
12.5	16.5	13.0	13.0	4.7	0.90±0.30	4.4	0.7MAX	±1.0
12.5	21	13.0	13.0	4.7	0.90±0.30	4.4	0.7MAX	±1.0
16	16.5	17.0	17.0	5.5	1.20±0.30	6.7	0.7±0.30	±1.0
16	21	17.0	17.0	5.5	1.20±0.30	6.7	0.7±0.30	±1.0
18	16.5	19.0	19.0	6.7	1.20±0.30	6.7	0.7±0.30	±1.0
18	21	19.0	19.0	6.7	1.20±0.30	6.7	0.7±0.30	±1.0

■ Ripple Current Correction Factor

Frequency(Hz)	50	120	1K	≥10K
Coefficient	0.35	0.5	0.83	1.0