

# V3MC

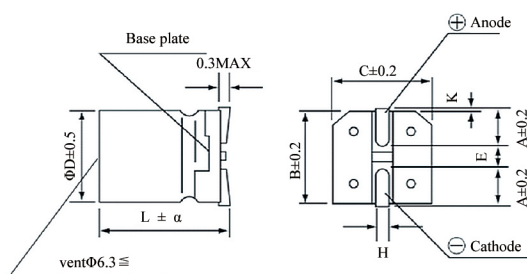
- ◆ 105°C 2000 Hours
- ◆ Ultra Small Size, Ultra High Capacitance, Ultra Low ESR
- ◆ RoHS Compliant
- ◆ AEC-Q200 Qualified, Please Consult Us For More Details



## ■ Specification

Items	Characteristics					
Operation Temperature Range	-55°C ~ +105°C					
Rated Voltage	6.3 ~ 35V.DC					
Capacitance Range	220 ~ 2700μF					
Capacitance Tolerance	±20% ( 120HZ, 25°C )					
Leakage Current(μA)	$I \leq 0.01CV$ or $3\mu A$ whichever is greater 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
	tgδ	0.26	0.19	0.16	0.14	0.12
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
	MAX Z(-40°C)/Z(20°C)	3	3	3	3	3
Endurance	After 2000 hours 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 20°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				
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				

## ■ Standard Size (Unit: mm)



## ■ Ripple Current Correction Factor

Frequency(Hz)	50	120	1K	≥10K
Coefficient	0.35	0.5	0.83	1.00

ΦD×L	A	B	C	E	H	K	α
6.3×7.7	2.6	6.6	6.6	1.8	0.75±0.10	0.7MAX	±0.3
8×10	3.4	8.3	8.3	3.1	0.90±0.20	0.7MAX	±0.5
10×10	3.5	10.3	10.3	4.4	0.90±0.20	0.7MAX	±0.5

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## ■ Standard Size

Voltage (V)		6.3			10			16			25		
Items Capacitance (μF)	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)	
													330
470							6.3×7.7	0.24	610				
560				6.3×7.7	0.24	610				8×10	0.12	860	
820	6.3×7.7	0.24	610				8×10	0.12	860				
1000										10×10	0.09	1200	
1200				8×10	0.12	860							
1500							10×10	0.09	1200				
1800	8×10	0.12	860										
2200				10×10	0.09	1200							
2700	10×10	0.09	1200										

Voltage (V)		35		
Items Capacitance (μF)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	
				220
470	8×10	0.12	860	
680	10×10	0.09	1200	