

AVMC Series

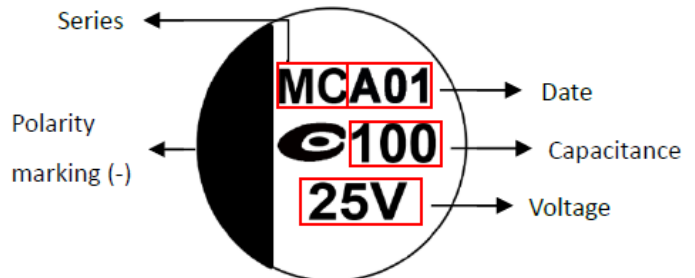
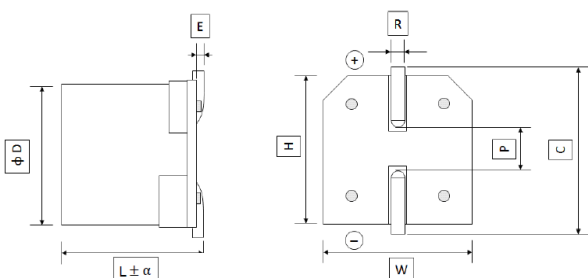
- Standard SMD type
- High reliability and high voltage are realized by hybrid electrolyte
- Rated Voltage:25~80V
- Endurance 4000 hours at 125°C
- For high temperature and high reliability applications
- RoHS Compliant



Specification

Category Temperature Range	-55~+125°C	Rated Voltage Range	25 to 80Vdc					
Rated Capacitance Range	22 to 470 (μF)	Capacitance Tolerance	±20% (M)					
Surge Voltage	Rated voltage X 1.15	Dissipation Factor (at 20°C 120Hz)	Rated Voltage (V)	25	35	50	63	80
			tan δ(max)	0.14	0.12	0.1	0.08	0.08
Leakage Current	Shall not exceed values shown in standard ratings (at 20°C after 2 mins.)							
Endurance	125°C, 4000 hours, apply the rated ripple current without exceeding the rated voltage							
	Appearance	No significant damage						
	Capacitance Change	≤ ±30% of the initial value						
	DF(tanδ)	≤ 200% of the initial specified value						
	ESR	≤ 200% of the initial specified value						
	Leakage current	≤ The initial specified value						
Damp Heat (Steady State)	60 to 90% RH, 1000 hours, rated voltage applied							
	Appearance	No significant damage						
	Capacitance Change	≤ ±20% of the initial value						
	DF(tanδ)	≤ 200% of the initial specified value						
	ESR	≤ 200% of the initial specified value						
	Leakage current	≤ The initial specified value						
Shelf Life	After storage for 1,000 hours at 125±2°C with no voltage applied and then being stabilized at 20°C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)							
	Appearance	No significant damage						
	Capacitance Change	≤ ±30% of the initial value						
	DF(tanδ)	≤ 200% of the initial specified value						
	ESR	≤ 200% of the initial specified value						
	Leakage current	≤ The initial specified value						

Dimensions and Marking



Size code	φD±0.5max (mm)	L (mm)	α (mm)	E (mm)	W±0.2 (mm)	H±0.2 (mm)	C±0.2 (mm)	R (mm)	P±0.3 (mm)
0608	6.3	7.5	±0.5	0.00~0.20	6.6	6.6	7.3	0.5~0.8	2.1
0810	8.0	9.7	±0.3	0.00~0.20	8.3	8.3	9.0	0.8~1.1	2.9
1010	10.0	10.2	±0.3	0.00~0.20	10.3	10.3	11.0	0.8~1.1	4.6
1012	10.0	12.3	±0.2	0.00~0.20	10.3	10.3	11.0	0.8~1.1	4.6

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Standard Ratings

WV/Vdc (SV)	Cap (μF)	Size Code	Leakage Current (μA)	ESR (mΩmax/ 20°C, 100kHz)	Rated Ripple Current (mArms/ 125°C /100kHz)	Part No.
25 (28.8)	100	0608	25	30	1,400	250AVMC101M0608
	220	0810	55	27	1,600	250AVMC221M0810
	270	0810	68	27	1,600	250AVMC271M0810
	330	1010	83	20	2,000	250AVMC331M1010
	470	1010	118	20	2,000	250AVMC471M1010
35 (40.3)	68	0608	24	35	1,400	350AVMC680M0608
	150	0810	53	27	1,600	350AVMC151M0810
	180	0810	63	27	1,600	350AVMC181M0810
	270	1010	95	20	2,000	350AVMC271M1010
	330	1010	116	20	2,000	350AVMC331M1010
50 (57.5)	33	0608	17	40	1,100	500AVMC330M0608
	68	0810	34	30	1,250	500AVMC680M0810
	100	1010	50	28	1,600	500AVMC101M1010
	120	1010	60	28	1,600	500AVMC121M1010
	180	1012	90	25	2,000	500AVMC181M1012
63 (72.5)	22	0608	14	80	900	630AVMC220M0608
	33	0810	21	40	1,100	630AVMC330M0810
	56	1010	35	30	1,400	630AVMC560M1010
	68	1010	43	30	1,400	630AVMC680M1010
	82	1010	52	30	1,400	630AVMC820M1010
80 (92)	27	0810	22	45	1,050	800AVMC270M0810
	33	1010	26	36	1,360	800AVMC330M1010
	47	1010	38	36	1,360	800AVMC470M1010

Frequency correction factor of allowable ripple current

Frequency	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f≤500kHz
Coefficient	0.05	0.3	0.7	1

PRODUCT IDENTIFICATION

<u>250</u>	<u>AVMC</u>	<u>101</u>	<u>M</u>	<u>0608</u>
Rated Voltage	Product	Capacitance	Cap Tolerance (%)	Size code (øDxL)
250: 25V	Series	101: 100μF	M: ±20%	0608: 6.3x8.0mm