

AVMA Series

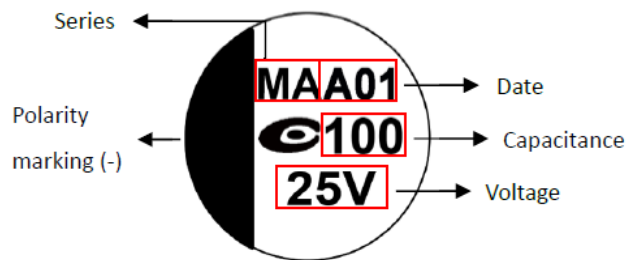
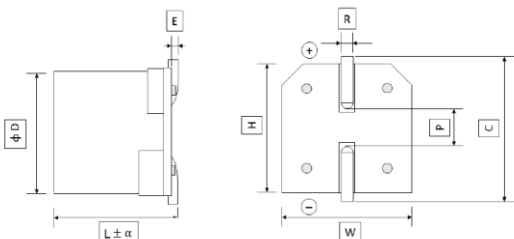
- Standard SMD type
- High reliability and high voltage are realized by hybrid electrolyte
- Rated Voltage:16~80V
- Endurance 10000 hours at 105°C
- RoHS Compliant



Specification

Category Temperature Range	-55~+105°C	Rated Voltage Range	16 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	105°C, 10000 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°C, 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 105±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	φ D±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	7.7	±0.3	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/ 105°C /100kHz)	Part No.
16 (18.4)	470	0810	75	26	2,400	160AVMA471M0810
	100	0608	25	30	2,000	250AVMA101M0608
25 (28.8)	220	0810	55	27	2,300	250AVMA221M0810
	330	1010	82.5	20	2,500	250AVMA331M1010
	390	1010	97.5	20	2,500	250AVMA391M1010
	470	1010	117.5	20	2,500	250AVMA471M1010
35 (40.3)	68	0608	23.8	35	2,000	350AVMA680M0608
	100	0810	35	30	1,800	350AVMA101M0810
	150	0810	52.5	27	2,300	350AVMA151M0810
	270	1010	94.5	20	2,500	350AVMA271M1010
	330	1010	115.5	20	2,500	350AVMA331M1010
50 (57.5)	33	0608	16.5	40	1,600	500AVMA330M0608
	68	0810	34	30	1,800	500AVMA680M0810
	100	1010	50	28	2,000	500AVMA101M1010
	120	1010	60	28	2,000	500AVMA121M1010
	150	1012	75	25	2,000	500AVMA151M1012
	180	1012	90	25	2,000	500AVMA181M1012
63 (72.5)	22	0608	13.9	80	1,500	630AVMA220M0608
	33	0810	20.8	40	1,700	630AVMA330M0810
	47	0810	29.6	40	1,700	630AVMA470M0810
	56	1010	35.3	30	1,800	630AVMA560M1010
	68	1010	42.8	30	1,800	630AVMA680M1010
	82	1010	51.7	30	1,800	630AVMA820M1010
	100	1010	63	30	2,400	630AVMA101M1010
80 (92)	22	0810	17.6	45	1,550	800AVMA220M0810
	47	1010	37.6	36	1,700	800AVMA470M1010

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>AVMA</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