AVME Series

- Standard SMD type
- Rated Voltage:25~80Vdc
- Endurance 4000hrs at 135°C
- High reliability and high voltage are realized by hybrid electrolyte
- For high temperature and high reliability applications
- RoHS Compliant

Specification

Category Temperature Range	-55~+135°C	Rated Voltage Range	25 to 80 Vdc					
Rated Capacitance Range	22 to 1000 (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	135°C, 4000hrs, rated voltage applied	
	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)	85℃, 85 to 90% RH, 1000hrs, 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 135±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	ψD±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)
0606	6.3	5.8	±0.2	0.00~0.20	6.6	6.6	7.3	0.5~0.8	2.1
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	0.00~0.30	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
1016	10.0	16.5	±0.3	0.00~0.20	10.3	10.3	11.0	0.8~1.1	4.6

AVME Series

Standard Ratings

WV/Vdc (SV)	Cap (μF)	Size Code	Leakage Current (μA)	tanδ	ESR (mΩmax/20°C, 100k to300kHz)	Rated Ripple Current (mArms/ 135°C /100kHz)	Part No.
25 (28.8)	56	0606	14	0.14	50	900	250AVME560M0606
	100	0608	25	0.14	30	1,400	250AVME101M0608
	150	0810	37.5	0.14	22	1,800	250AVME151M0810
	220	0810	55	0.14	22	1,800	250AVME221M0810
	270	1010	67.5	0.14	20	2,200	250AVME271M1010
	330	1010	82.5	0.14	20	2,200	250AVME331M1010
	470	1012	117.5	0.14	16	2,500	250AVME471M1012
	560	1010	140	0.14	20	2,200	250AVME561M1010
	560	1016	140	0.14	15	2,900	250AVME561M1016
	680	1012	170	0.14	16	2,500	250AVME681M1012
	820	1016	205	0.14	11	4,000	250AVME821M1016
	1000	1016	250	0.14	11	4,000	250AVME102M1016
35 (40.3)	47	0606	16.5	0.12	60	900	350AVME470M0606
	68	0608	23.8	0.12	35	1,400	350AVME680M0608
	100	0810	23.8	0.12	35	1,400	350AVME101M0810
	150	0810	52.5	0.12	22	1,800	350AVME151M0810
	150	1010	52.5	0.12	22	1,800	350AVME151M1010
	220	1010	77	0.12	20	2,200	350AVME221M1010
	270	1010	94.5	0.12	20	2,200	350AVME271M1010
	330	1012	115.5	0.12	16	2,500	350AVME331M1012
	470	1016	164.5	0.12	15	2,900	350AVME471M1016
50 (57.5)	22	0606	11	0.1	80	750	500AVME220M0606
	33	0608	16.5	0.1	40	1,100	500AVME330M0608
	47	0810	23.5	0.1	24	1,500	500AVME470M0810
	68	0810	34	0.1	24	1,500	500AVME680M0810
	100	1010	50	0.1	22	1,800	500AVME101M1010
	120	1010	60	0.1	22	1,800	500AVME121M1010
	150	1012	75	0.1	18	2,200	500AVME151M1012
	180	1012	90	0.1	16	2,500	500AVME181M1012
	220	1016	110	0.1	16	2,500	500AVME221M1016
	270	1016	135	0.1	13	3,800	500AVME271M1016
63 (72.5)	10	0606	6.3	0.08	120	700	630AVME100M0606
	22	0608	13.9	0.08	80	900	630AVME220M0608
	33	0810	20.8	0.08	24	1,500	630AVME330M0810
	47	0810	29.6	0.08	24	1,500	630AVME470M0810
	56	1010	35.3	0.08	22	1,800	630AVME560M1010
	68	1010	42.8	0.08	22	1,800	630AVME680M1010
	82	1010	51.7	0.08	22	2,800	630AVME820M1010
	82	1012	51.7	0.08	17	3,000	630AVME820M1010E17H
	100	1010	63	0.08	17	3,000	630AVME101M1010
	100	1012	63	0.08	18	2,200	630AVME101M1012
	120	1012	75.6	0.08	18	2,200	630AVME121M1012
	120	1012	75.6	0.08	12	3,400	630AVME121M1012E12H

	150	1016	94.5	0.08	16	2,500	630AVME151M1016
	180	1016	113.4	0.08	16	2,500	630AVME181M1016
	180	1016	113.4	0.08	10	3,800	630AVME181M1016E10H
80	22	0810	17.6	0.08	45	1,200	800AVME220M0810
(92)	47	1010	37.6	0.08	36	1,700	800AVME470M1010