

HVT- SMD Aluminum Electrolytic Capacitors – Standard Type

Features

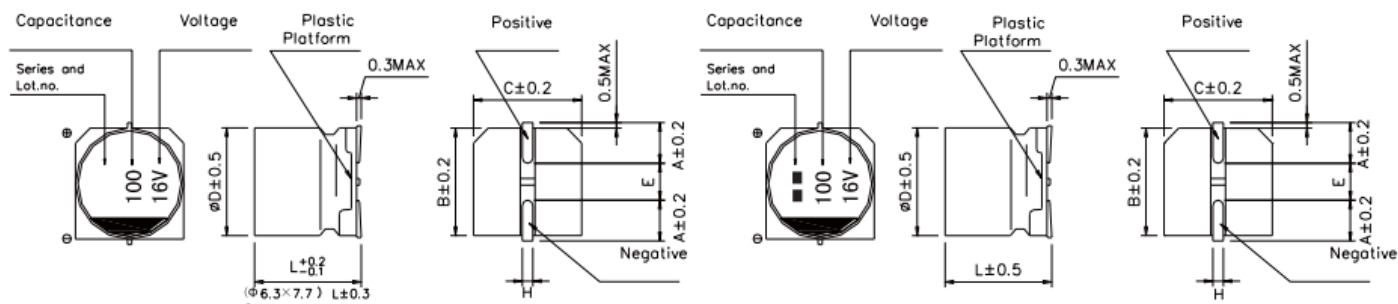
Operating with wide temperature range -55°C~+105°C
Load Life of 2,000hours, Standard Type
Comply with the RoHS directive



Specification

Item	Performance Characteristics												
Operating Temperature Range	-55℃~+105℃												
Rated Voltage Range	4 ~ 100V												
Nominal Capacitance Range	0.1 ~ 6800 μF												
Capacitance Tolerance	±20% 120Hz, +20℃												
Leakage Current	I≤0.01CV or 3 μA, whichever is greater (at 20℃, after 2 minutes)								I≤0.02CV + 15 μA (1 minute)				
Dissipation Factor (+20℃, 120Hz) (tanδ)	UR (V)				4	6.3	10	16	25	35	50	63	100
	tanδ		Φ4~ Φ10		0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.12
			Φ12.5~ Φ16		0.42	0.38	0.34	0.30	0.26	0.22	0.18	0.14	0.12
Temperature characteristics (Impedance ratio at 120Hz)			4	6.3	10	16	25	35	50~63		100		
	Φ4~ Φ10	Z(-25℃)/ Z (20℃)	7	4	3	2	2	2	2	2		3	
		Z(-40℃)/ Z (20℃)	15	8	6	4	4	3	3	3		4	
	Φ12.5~ Φ16	Z(-25℃)/ Z (20℃)	17	5	4	3	2	2	2	2		2	
		Z(-40℃)/ Z (20℃)	17	12	10	8	5	4	3	3		3	
Load life	After 2,000hours (1,000hours for Φ4~ Φ6.3*5.4) application of the rated voltage at 105 ℃, they meet the characteristics listed below. Capacitance Change: within ±20% of the initial measured values Leakage Current: ≤Initial specified value Dissipation Factor: ≤2 times of the initial specified value												
Shelf life	After storage for 1,000 hours at+105℃, and then resumed for 16 hours: Capacitance Change: within ±10% of the initial measured values Leakage Current: ≤2 times of the initial specified value Dissipation Factor: ≤2 times of the initial specified value												

Case Size Table



Voltage mark for 6.3V is (6V)

Applicable to $\Phi 6.3 \times 7.7$

Applicable to $\Phi 8 \times 10.5 \sim \Phi 10$

Applicable to $\Phi 12.5 \sim \Phi 16$

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Cap. (μF)	Code	4V		6.3V		10V		16V		25V	
		0G		0J		1A		1C		1E	
4.7	4R7									4*5.4	13
10	100							4*5.4	18	(4*5.4) 5*5.4	(14) 20
22	220			4*5.4	22	(4*5.4) 5*5.4	(20) 25	(4*5.4) 5*5.4	(20) 27	(5*5.4) 6.3*5.4	(25) 36
33	330	(4*5.4) 5*5.4	(18) 30	(4*5.4) 5*5.4	(22) 27	(4*5.4) 5*5.4	(22) 30	(5*5.4) 6.3*5.4	(28) 40	(5*5.4) 6.3*5.4	(29) 44
47	470	(4*5.4) 5*5.4	(24) 36	(4*5.4) 5*5.4	(25) 33	(5*5.4) 6.3*5.4	(30) 41	(5*5.4) 6.3*5.4	(31) 48	6.3*5.4 (8*6.2)	48 (91)
100	101	(5*5.4) 6.3*5.4	(43) 60	(5*5.4) 6.3*5.4	(39) 50	(5*5.4) 6.3*5.4	(52) 53	6.3*5.4 (8*6.2)	60 (120)	6.3*7.7	91
150	151	6.3*5.4	52	6.3*5.4	55	6.3*5.4	62	6.3*7.7	95	(6.3*7.7) 8*10.5	(100) 140
220	221	6.3*5.4	57	(6.3*5.4) 6.3*7.7	(67) 105	(6.3*5.4) 6.3*7.7	(103) 105	(6.3*7.7) (8*6.2) 8*10.5	(105) (85) 150	8*10.5	175
330	331	6.3*7.7	100	6.3*7.7	105	8*10.5	196	8*10.5	195	(8*10.5) 10*10.5	(220) 240
470	471	6.3*7.7	105	(6.3*7.7) 8*10.5	(120) 210	(8*10.5) 10*10.5	(210) 260	(8*10.5) 10*10.5	(295) 230	10*10.5	280
680	681	8*10.5	210	8*10.5	210	10*10.5	270	10*10.5	315	10*13.5	400
1000	102	8*10.5	230	(8*10.5) 10*10.5	(230) 300	10*10.5	315	(10*10.5) (10*13.5) 12.5*13.5	(340) (390) 500	12.5*13.5	580
1500	152	10*10.5	315	(10*10.5) 10*13.5	(315) 450	10*13.5	460	12.5*13.5	550	12.5*16	850
2200	222	(10*10.5) 10*13.5	(340) 440	(10*13.5) 12.5*13.5	(500) 620	12.5*13.5	680	(12.5*16) 16*16.5	(750) 950	16*16.5	1050
3300	332	10*13.5	490	(12.5*13.5) 12.5*16	(660) 700	16*16.5	1000	16*16.5	1000		
4700	472	12.5*13.5	600	16*16.5	1000						
6800	682	(12.5*16) 16*16.5	950 (650)							Case Size	Ripple Current

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Cap. (μF)	Code	35V		50V		63V		100V	
		1V		1H		1J		2A	
0.1	0R1			4*5.4	0.7	4*5.4	0.7		
0.22	R22			4*5.4	1.6	4*5.4	1.6		
0.33	R33			4*5.4	2.5	4*5.4	2.5		
0.47	R47			4*5.4	3.5	4*5.4	3.5		
1	010			4*5.4	7	4*5.4	7	4*5.4	7
2.2	2R2			4*5.4	11	4*5.4	11	6.3*5.4	14
3.3	3R3	4*5.4	13	4*5.4	13	5*5.4	13	(6.3*5.4) 6.3*7.7 (8*6.2)	(20) 32 (30)
4.7	4R7	4*5.4	14	(4*5.4) 5*5.4	(13) 16	5*5.4	16	(6.3*5.4) 6.3*7.7	(21) 35
10	100	(4*5.4) 5*5.4	(14) 21	6.3*5.4	24	(6.3*5.4) 6.3*7.7 (8*6.2)	(24) 39 (25)	(6.3*7.7) 8*10.5	(35) 77
22	220	6.3*5.4	38	(6.3*5.4) 6.3*7.7 (8*6.2)	(42) 51 (70)	(6.3*7.7) 8*10.5	(49) 98	(8*10.5) 10*10.5	(84) 126
33	330	6.3*5.4 (8*6.2)	42 (84)	6.3*7.7	60	8*10.5	112	10*10.5	133
47	470	(6.3*5.4) 6.3*7.7	(50) 70	(6.3*7.7) 8*10.5	(63) 120	(8*10.5) 10*10.5	(119) 160	(10*10.5) (10*13.5) 12.5*13.5	(140) (160) 250
68	680							(10*13.5) 12.5*13.5	(180) 300
100	101	(6.3*7.7) 8*10.5	(84) 120	(8*10.5) 10*10.5	(140) 170	(10*10.5) (10*13.5) 12.5*13.5	(196) (210) 270	(12.5*13.5) 16*16.5	(380) 450
150	151	8*10.5	155	10*10.6	170	10*13.5	225		
220	221	(8*10.5) 10*10.5	(190) 220	(10*10.5) 10*13.5	(220) 280	(10*13.5) (12.5*13.5) 16*16.5	(235) (470) 560	16*16.5	550
330	331	10*10.5	245	(10*13.5) (12.5*13.5) 16*16.5	(295) (420) 600	(12.5*16) 16*16.5	(510) 700		
470	471	(10*10.5) (10*13.5) 12.5*13.5	(280) (375) 520	(12.5*16) 16*16.5	(520) 700	16*16.5	750		
680	681	(10*13.5) 12.5*13.5	(395) 530	16*16.5	750				
1000	102	(12.5*16) 16*16.5	(600) 750					Case Size	Ripple Current

Case Size ΦDxL(mm), Ripple Currenrt (mA, ms) at 105°C 120Hz

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