PC28 - Surface Mount Aluminum Electrolytic Capacitor

* Features: 85℃, 2000 hours & Low profile vertical chip
* Recommended Application: Suitable for AV, monitor/computer, Home appliance
  OA/HA/Communication

Specifications

Item	Characteristics
Operating Temperature Range	-40 ~ +85℃
Rated Voltage Range (WV)	4 ~ 100VDC
Capacitance Range	0.1 ~ 1000μF
Capacitance Tolerance	± 20% at 120Hz, 20℃
Leakage Current (MAX) (20℃)	I≤0.01CV or 3(μA), whichever is greater. (After rated voltage applied for 2 minutes) I= Leakage Current (μA) C= Nominal Capacitance (μF) V= Rated Voltage (V)
Dissipation Factor (MAX) (tan δ) (120Hz, 20℃)	Shown in the table of sta
Low Temperature Stability Impedance Ratio (MAX)	

WV / Z(120HZ)	4	6.3	10	16	25	35	50	63	100
Z(-25℃) / Z(20℃)	7	4	3	2	2	2	2	2	2
Z(-40℃) / Z(20℃)	15	8	6	4	4	3	3	3	3

Endurance

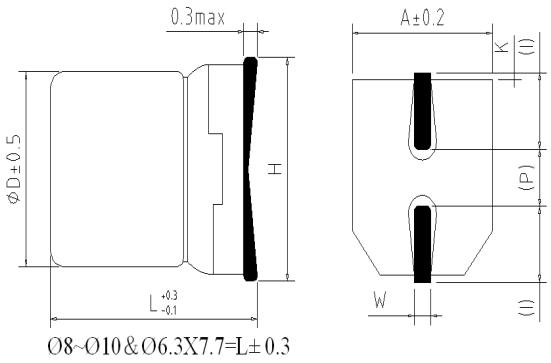
After applying rated voltage for 2000hrs at 85℃,
the capacitors shall meet the following requirements.

Capacitance Change	Within ± 20% of the initial value
Dissipation Facot	Not more than 200% of the specified value
Leakage Current	Not more than the specified value

Shelf Life

After placed at 85℃ without voltage applied for 1000 hours,
the capacitor shall meet the same requirement as Endurance.

Diagram of Dimensions (mm)



Φ8~Φ10&Φ6.3X7.7=L±0.3

ΦD	L	A	H	I	W	P	K
4.0	5.4	4.3	5.5 Max	1.8	0.65±0.1	1.0±0.2	0.35 +0.15 -0.20
5.0	5.4	5.3	6.5 Max	2.2	0.65±0.1	1.5±0.2	0.35 +0.15 -0.20
6.3	5.4	6.6	7.8 Max	2.6	0.65±0.1	1.8±0.2	0.35 +0.15 -0.20
6.3	7.7	6.6	7.8 Max	2.6	0.65±0.1	1.8±0.2	0.35 +0.15 -0.20
8.0	6.2	8.3	9.5 Max	3.4	0.65±0.1	2.2±0.2	0.35 +0.15 -0.20
8.0	10.2	8.3	10.0 Ma	3.4	0.90±0.2	3.1±0.2	0.70±0.2
10.0	10.2	10.3	12.0 Ma	3.5	0.90±0.2	4.6±0.2	0.70±0.2

Multiplier for Ripple Current

Frequency coefficient				
Frequency (Hz)	60	120	1K	10K
Coefficient	0.80	1.00	1.15	1.25
Temperature coefficient				
Ambient Temperature (℃)	≤50	70	85	
Coefficient	1.36	1.25	1	

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Dimensions, Max Dissipation Factor, Max Permissible Ripple Current, Max Equivalent Series Resistance

Capacitance (μF)	Rated (Surge) Voltage															
	4(5)				6.3(8)				10(13)				16(20)			
	Size	tanδ	Ripple	ESR	Size	tanδ	Ripple	ESR	Size	tanδ	Ripple	ESR	Size	tanδ	Ripple	ESR
4.7													4x5.4	0.16	20	45.1
10													4x5.4	0.16	28	21.1
22	4x5.4	0.35	19	21.1	4x5.4	0.26	20	15.6	4x5.4	0.30	28	18	4x5.4	0.26	27	15.6
													5x5.4	0.16	39	9.64
33	4x5.4	0.35	26	14.0	5x5.4	0.26	22	10.4	4x5.4	0.30	29	12	5x5.4	0.26	45	10.4
									5x5.4	0.20	43	8.03	6.3x5.4	0.16	66	6.43
47	4x5.4	0.35	34	9.87	5x5.4	0.26	46	7.33	5x5.4	0.30	43	8.46	6.3x5.4	0.16	70	4.51
													6.3x7.7	0.18	75	5.07
100	5x5.4	0.35	61	4.64	6.3x5.4	0.26	71	3.44	6.3x5.4	0.26	70	3.44	6.3x5.4	0.20	70	2.65
													6.3x7.7	0.20	85	2.38
220	6.3x5.4	0.35	82	2.11	6.3x7.7	0.35	235	2.11	6.3x7.7	0.26	105	1.32	6.3x7.7	0.20	105	1.08
					8x6.2	0.35	250	2.11	8x6.2	0.26	250	1.56	8x10.2	0.20	280	1.20
330					6.3x7.7	0.35	280	1.40	8x10.2	0.26	330	1.04	10x10.2	0.20	380	0.80
					8x6.2	0.35	300	1.40								
470					8x10.2	0.35	380	0.99	10x10.2	0.26	400	0.73	10x10.2	0.20	420	0.56
1000					10x10.2	0.35	700	0.46	10x10.2	0.26	580	0.34				

Capacitance (μF)	Rated (Surge) Voltage											
	25(32)				35(44)				50(63)			
	Size	tanδ	Ripple	ESR	Size	tanδ	Ripple	ESR	Size	tanδ	Ripple	ESR
0.1									4x5.4	0.12	1	1593
0.22									4x5.4	0.12	2	723
0.33									4x5.4	0.12	3	482
0.47									4x5.4	0.12	5	338
1									4x5.4	0.12	10	159
2.2					4x5.4	0.12	8	72.3	4x5.4	0.12	16	72.3
3.3					4x5.4	0.12	10	48.2	4x5.4	0.12	16	48.2
4.7	4x5.4	0.14	22	39.5	4x5.4	0.12	22	33.8	5x5.4	0.12	23	33.8
10	4x5.4	0.20	24	26.5	4x5.4	0.16	24	21.2	6.3x5.4	0.12	35	15.9
	5x5.4	0.14	28	18.5	5x5.4	0.12	30	15.9				
22	6.3x5.4	0.14	55	8.44	6.3x5.4	0.12	60	7.23	6.3x7.7	0.12	90	7.23
									8x6.2	0.12	110	7.23
33	6.3x5.4	0.14	65	5.62	8x6.2	0.14	130	5.62	6.3x7.7	0.12	90	4.82
									8x10.2	0.12	120	4.82
47	6.3x5.4	0.20	70	5.64	8x6.2	0.14	165	3.95	6.3x7.7	0.12	63	3.38
	8x6.2	0.16	96	4.51					10x10.2	0.12	130	3.38
100	6.3x7.7	0.16	115	2.12	6.3x7.7	0.14	140	1.85	10x10.2	0.12	190	1.59
	8x10.2	0.16	180	2.12	10x10.2	0.14	210	1.85				
220	10x10.2	0.16	310	0.96	10x10.2	0.14	310	0.84				

Capacitance (μF)	Rated (Surge) Voltage							
	63(79)				100(125)			
	Size	tanδ	Ripple	ESR	Size	tanδ	Ripple	ESR
3.3					8x10.2	0.18	30	72.3
4.7	6.3x5.4	0.18	20	50.8	8x10.2	0.18	50	50.8
10	6.3x5.4	0.18	20	23.8	8x10.2	0.18	55	23.8
22	8x10.2	0.18	30	10.8	10x10.2	0.18	60	10.8
33	8x10.2	0.18	30	7.23	10x10.2	0.18	65	7.23
47	8x10.2	0.18	30	5.08				
100	10x10.2	0.18	60	2.38				

☆Size:DΦ x L(mm).☆tanδ : 20℃, 120Hz. ☆Ripple Current: 85℃, 120Hz,(mA/rms)☆ESR:20℃, 120Hz,(Ω).