



CAYB SERIES: Surface Mount, 105°C

A.I.E.CAP.

FEATURES

- ◆ •105°C, 2000 hours assured.
- ◆ •Ultra Low ESR, solid capacitors of SMD type
- ◆ RoHS Compliance



SPECIFICATIONS

Items	Performance										
Operating Temperature Range	-55°C ~ +105°C										
Capacitance Tolerance	+20% (at 120Hz, 20°C)										
Leakage Current (at 20°C)	Leakage current is not more than 0.2 CV (μ A, after 2 minutes) Where, C=rated capacitance in F. V = rated DC working voltage in V.										
Dissipation Factor (Tan δ at 120Hz, 20°C)	See the Dimension & Permissible Ripple Current										
ESR (at 100K ~ 300K Hz, 20°C)	See the Dimension & Permissible Ripple Current										
Load Life Test	<table border="1"> <thead> <tr> <th>Test Time</th><th>2,000 Hrs</th></tr> </thead> <tbody> <tr> <td>Capacitance Change</td><td>Within $\pm$20% of initial value</td></tr> <tr> <td>Dissipation Factor</td><td>Less than 150% of specified value</td></tr> <tr> <td>ESR</td><td>Less than 150% of specified value</td></tr> <tr> <td>Leakage Current</td><td>Within specified value</td></tr> </tbody> </table> * The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000 hrs at 105°C.	Test Time	2,000 Hrs	Capacitance Change	Within $\pm$ 20% of initial value	Dissipation Factor	Less than 150% of specified value	ESR	Less than 150% of specified value	Leakage Current	Within specified value
Test Time	2,000 Hrs										
Capacitance Change	Within $\pm$ 20% of initial value										
Dissipation Factor	Less than 150% of specified value										
ESR	Less than 150% of specified value										
Leakage Current	Within specified value										
Moisture Resistance	Store at 60°C, 90 to 95% R.H. Test time: 1,000 hrs, other items are the same as those for the load life test. <table border="1"> <thead> <tr> <th>Test Time</th><th>1,000 Hrs</th></tr> </thead> <tbody> <tr> <td>Capacitance Change</td><td>Within +20% of initial value</td></tr> <tr> <td>Dissipation Factor</td><td>Less than 150% of specified value</td></tr> <tr> <td>Leakage Current</td><td>Within specified value</td></tr> </tbody> </table> * Leakage current should be tested after voltage treatment.	Test Time	1,000 Hrs	Capacitance Change	Within +20% of initial value	Dissipation Factor	Less than 150% of specified value	Leakage Current	Within specified value		
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Capacitance Change	Within +20% of initial value										
Dissipation Factor	Less than 150% of specified value										
Leakage Current	Within specified value										
Standards	JIS C 5101-1										

DIMENSION & PERMISSIBLE RIPPLE CURRENT

W.V. (V)	Capacitance (μ F)	Size DxL (mm)	Tan (120Hz, 20°C)	L.C. (μ A)	E.S.R. (m Ω */at 100K ~ 300K Hz, 20°C MAX)	Rated R.C. (mA/rms at 100KHz, 105°C)
2.5V (0E)	220	6.3 x 6	0.12	110	25	2,500
	560	8 x 7	0.12	280	23	3,100
	680	8 x 12	0.18	340	12	4,770
	1,000	10 x 8	0.12	500	19	4,240
	1,200	10 x 10	0.18	750	13	5,200
	1,500	10 x 13	0.18	500	10	5,500
4V (0G)	150	6.3 x 6	0.12	120	26	2,450
	220	8 x 7	0.12	176	25	3,020
	330	8 x 7	0.12	264	25	3,020
	470	10 x 8	0.12	376	20	4,130
	560	8 x 12	0.18	448	12	4,770
	680	10 x 8	0.12	544	20	4,130
	820	10 x 10	0.18	656	13	5,200
6.3V (0J)	1,200	10 x 13	0.18	960	10	5,500
	82	6.3 x 6	0.12	103	27	2,400
	100	6.3 x 6	0.12	126	27	2,400
	120	6.3 x 7	0.12	151	30	2,010
	150	6.3 x 7	0.12	189	30	2,250
		8 x 7	0.12	189	25	3,020
	220	6.3 x 7	0.12	277	45	2,320
		8 x 7	0.12	277	25	3,020
	330	10 x 8	0.12	416	20	4,130
	470	8 x 12	0.15	592	12	4,770
		10 x 8	0.12	592	20	4,130
	560	10 x 10	0.15	706	16	4,700
	820	10 x 13	0.15	1,033	10	5,500



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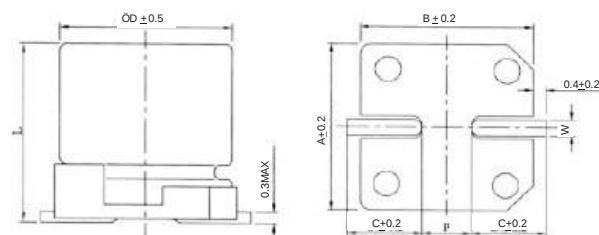
Al. E. CAP.

DIMENSION & PERMISSIBLE RIPPLE CURRENT Cont'd

W.V. (V)	Capacitance (μF)	Size DxL (mm)	Tan (120Hz, 20°C)	L.C. (μA)	E.S.R. (m Ω /at 100K ~ 300KHz, 20°C MAX)	Rated R.C. (mA/rms at 100KHz, 105°C)
10V (1A)	56	6.3 x 6	0.10	112	31	2,250
	150	8 x 7	0.10	300	27	2,800
	330	10 x 8	0.10	660	24	3,770
	330	8 x 12	0.15	660	14	4,420
	470	10 x 10	0.15	940	18	4,400
	560	10 x 13	0.15	1,120	12	5,300
16V (1C)	47	6.3 x 6	0.10	150	50	1,650
	82	8 x 7	0.10	262	30	2,700
	180	8 x 12	0.15	576	16	4,360
		10 x 8	0.10	576	26	3,430
	220	10 x 10	0.15	704	20	4,200
	330	10 x 13	0.15	1,056	14	5,050
20V (1D)	22	6.3 x 6	0.10	88	50	1,650
	47	8 x 7	0.10	188	45	2,000
	82	10 x 8	0.10	328	40	2,500
	100	8 x 12	0.15	400	24	3,320
		10 x 10	0.15	400	25	3,700
	150	10 x 13	0.15	608	20	4,320
25V (1E)	7	6.3 x 6	0.10	170	80	1,200
	33	8 x 12	0.12	413	30	2,980
	56	10 x 13	0.12	700	28	3,800

PAD SPACING AND DIAMETER

ÖD	L	A	B	C	W	P+0.2
6.3	6.0 + 0.2	6.6	6.6	2.7	0.5 to 0.8	2.0
6.3	7.0 + 0.2	6.6	6.6	2.7	0.5 to 0.8	2.0
8	7.0 + 0.2	8.4	8.4	3.0	0.7 to 1.1	2.3
8	11.8 + 0.5	8.4	8.4	3.0	0.7 to 1.1	3.1
10	8.0 + 0.2	10.4	10.4	3.3	0.7 to 1.1	4.7
10	10.0 + 0.5	10.4	10.4	3.3	0.7 to 1.1	4.7
10	12.7 + 0.5	10.4	10.4	3.3	0.7 to 1.1	4.7



PART NUMBER EXAMPLE

