CAYA SERIES: 105°C, 2000 Hours

Al. E. CAP.

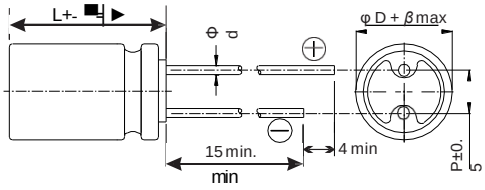
FEATURES

- 105°C, 2,000 hours assured.
- Ultra Low ESR with large permissible ripple current
- RoHS Compliance

SPECIFICATIONS

Items	Performance
Operating Temperature	- 55°C ~ + 105°C
Capacitance Tolerance	±20% (at 120Hz, 20°C)
Leakage Current (at 20°C)	Rated voltage applied, after 2 minutes at 20°C See Standard Ratings
Tan ∂ (at 120Hz, 20°C)	See Standard Ratings
Load Life Test	Test Time: 2,000 hours Capacitance Change: Within 20% of initial value Tan ∂: Less than 150% of specified value ESR: Less than 150% of specified value Leakage Current: Within specified value * The above specification shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000 hours at 85°C
Moisture Resistance	Test Time: 1,000 hours Capacitance Change: Within 20% of initial value Tan: Less than 150% of specified value ESR: Less than 150% of specified value Leakage Current: Within specified value * The above specification shall be satisfied when the capacitors are restored to 20°C after subjecting them at 60°C 90 to 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment.(note)
Ripple Current & Frequency Multipliers	Frequency (Hz): 120 ≤ f < 1K	1K ≤ f < 10K	10K ≤ f < 100K	100K ≤ f < 500K Multiplier: 0.05	0.3	0.7	1.0

DIAGRAM OF DIMENSIONS (mm)



Lead Spacing and Diameter Unit : mm

φD	6.3	6.3	6.3	8	10	10
L	5.5	6.5	11.0	11.5	10	12.0
P	2.5			3.5	5.0	
φd	0.45		0.5	0.6		
α	1.0					
β	0.5					

PART NUMBER EXAMPLE

CAYA 227 M 1A B 063100 F

- CAYA — Series
- 227 — Capacitance Code
- M — Tolerance Code
- 1A — Rated Voltage
- B — Package
- 063100 — Case Size
- F — Flat Rubber

Code	Lead Forming Type
O	Bulk
T	5mm Chip tape
A	(Φ4~Φ6.3)2.5mm tape
F	(Φ4~Φ8)5mm tape
P	Φ≥Φ8mm original(vertical)tape
M	5mm Lead forming
C	C Lead forming
B	B Lead forming
D	(Φ4~Φ8)2.5mm Lead forming

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CASE SIZE & ELECTRICAL RATING

W.V. (V)	Surge Voltage (V)	Capacitance (μF)	Code	Size ϕD x L (mm)	Tan ∂ (120Hz, 20°C)	L.C. (μA)	E S R (mΩ/at 100K~300KHz, 20°C max)	Rate R.C. (mA/rms at 100KHz, 105°C)
2.5V (0E)	2.9	220	227	6.3 x 5.5	0.12	110	28	2,390
		390	397	6.3 x 11	0.12	195	18	3,160
		680	687	8 x 11.5	0.18	340	10	5,230
		1,000	108	10 x 10	0.18	500	14	4,700
		1,500	158	10 x 12	0.18	750	12	5,500
4V (0E)	4.6	150	157	6.3 x 5.5	0.12	120	40	1,810
		270	277	6.3 x 11	0.12	216	15	3,200
		560	567	8 x 11.5	0.18	448	10	5,230
		1,200	128	10 x 12	0.18	960	12	5,500
6.3V (0J)	7.2	100	107	6.3 x 5.5	0.12	126	40	1,810
		220	227	6.3 x 11	0.12	277	18	3,160
		330	337	6.3 x 6.5	0.12	416	28	2,390
		390	397	8 x 11.5	0.15	491	12	4,770
		470	477	8 x 11.5	0.15	592	12	4,770
		820	827	10 x 12	0.15	1033	12	5,500
10V (1A)	12.0	100	107	6.3 x 6.5	0.12	200	45	1,700
		220	227	6.3 x 10	0.08	440	30	2,500
				10 x 10	0.15	440	17	3,950
		330	337					
		560	567	10 x 12	0.12	1360	12	5,300
16V (1C)	18.0	47	477	6.3 x 5.5	0.10	150	50	1,650
		100	107	6.3 x 11	0.10	320	22	2,820
		180	187	8 x 11.5	0.12	576	16	4,360
		330	337	10 x 10	0.12	1056	16	4,360
		330	337	10 x 12	0.12	1056	14	5,050
20V (1D)	23.0	22	226	6.3 x 5.5	0.10	88	60	1,450
		56	566	6.3 x 11	0.10	224	25	2,650
		100	107	8 x 11.5	0.15	400	24	3,320
		100	107	10 x 10	0.15	400	24	3,320
		150	157	10 x 12	0.15	600	20	4,320
		330	337	10 x 12	0.12	1320	24	2,800
25V (1E)	29.0	6.8	685	6.3 x 5.5	0.10	170	80	1,200
		33	336	8 x 11.5	0.12	165	24	3,320
		56	566	8 x 11.5	0.12	280	24	3,320
				10 x 12.5	0.12	280	20	4,320
		68	686					
		100	107	10 x 12	0.12	500	20	4,320
		270	277	10 x 12	0.12	1350	25	2,800
35V (1V)	40.0	22	226	8 x 11.5	0.12	154	31	2,300
		39	396	8 x 11.5	0.12	273	31	2,300
		47	476	10 x 12	0.12	329	30	3,650
		68	686	10 x 12	0.12	476	28	2,700
		150	157	10 x 12	0.12	1050	26	2,700
50V (1H)	58.0	27	276	8 x 11.5	0.12	390	29	2,200
		47	476	10 x 12	0.12	680	28	2,600
63V (1J)	73.0	27	276	8 x 11.5	0.12	340	33	2,100
		47	476	10 x 12	0.12	592	29	2,600