

CAIC SERIES: Snap-in Terminal Type, 105°C



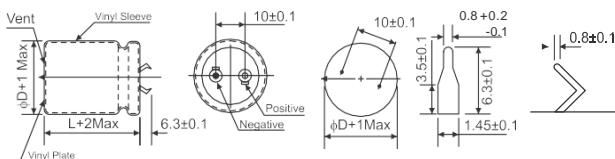
FEATURES

- ◆ Has a snap-in terminal which can solder to a PCB directly and need not fixture to save processing time.
- ◆ Suitable for electronic equipment with medium-high voltage circuits.
- ◆ Printed circuit board terminal snap-in type and lug terminal type available.

SPECIFICATIONS

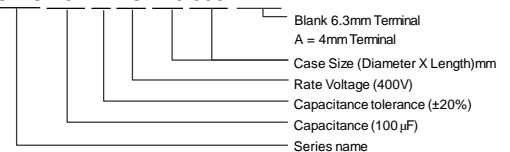
Item	Performance														
Operating Temperature Range	-40°C ~ +105°C														
Capacitance Tolerance	± 20% (120Hz, 20°C)														
Leakage Current (at 20°C)	I = 0.02CV (μA after 2 minutes) Where, C = rated capacitance in μF. V = rated DC working voltage in V.														
Dissipation Factor (Tanδ)	Rated Voltage	16	25	35	50	63	100	160	200	250	350	400	450		
	Tanδ (max)	0.40	0.30	0.25	0.20	0.15	0.15	0.10*	0.10*	0.15*	0.15	0.15			
Low Temperature Characteristics (at 120Hz)	0.15 for D = 35mm														
	Rated Voltage	16	25	35	50	63	100	160	200	250	350	400	450		
	Impedance Ratio	Z(-25°C)/Z(=20°C)	4	3	3	2	2	2	4	4	4	4	8	8	
Load Life Test (after application of the rated voltage at 85°C/105°C, the polarity inverted every 250 hours. The above specification shall be satisfied when the capacitors are restored to 20°C after rated voltage applied for 2000 hrs at 85°C/105°C)	Test Time	2000 Hrs													
	Capacitance Change	Within ± 20% of initial value													
	Dissipation Factor	Less than 200% of specific value													
	Leakage Current	Within specified values													
	Impedance ratio shall not exceed the values given in the table above														
Shelf Life Test (The above specification shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hrs at 85°C/105°C without voltage applied.)	Test Time	1000 Hrs													
	Capacitance Change	Within ± 20% of initial value													
	Dissipation Factor	Less than 200% of specific value													
	Leakage Current	Within specified values													
	The above specification shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hrs at 85°C/105°C without voltage applied.														
Ripple Current & Frequency Multipliers	Freq.(Hz)	60	120	500	1K	10K up									
	W.V.(V)	Under 100	0.92	1.00	1.13	1.19	1.20								
		160 ~ 250	0.81	1.00	1.32	1.45	1.50								
		350 and up	0.77	1.00	1.30	1.41	1.43								
Ripple Current & Temperature Multipliers	Temperature(°C)	55	70	85	105										
	Multiplier	2.1	1.8	1.5	1.0										
Standards	Satisfies Characteristic W of JIS C 5141														

SNAP-IN TERMINAL TYPE



PART NUMBER EXAMPLE

CAIC 107 M 2G 220 300





CAIC SERIES: Snap-in Terminal Type, 105°C

DIMENSIONS & PERMISSABLE RIPPLE CURRENT

Dimension: ΦDxL (mm): Ripple Current: A/RMS at 120Hz, 105°C

μF	DxL	16V (1C)				25V (1E)				35V (1V)					
		22	25	30	35	22	25	30	35	22	25	30	35		
4700	472					22x25	1.50					25x25	1.80		
5600	562					22x25	1.72			22 x 35	1.95	25x60	1.96	30x25	2
6800	682	22x25	1.57			22x30	1.86	25x25	1.87	22 x 40	2.20	25x35	2.23		
8200	822	22x25	1.94			22x35	2.11	25x30	2.12	30x25	2.15			22 x 50	2.55
10000	103	22x30	1.94	25x30	2.12							25x45	2.87	30x35	2.90
12000	123	22x35	2.22	25x30	2.24	30x25	2.45			22x45	2.69	25x40	2.74	30x30	2.78
										35 x 25	2.74			25x50	3.24
15000	153													30x40	3.23
										25x45	3.15	30x35	3.13	35 x 30	3.27
18000	183													30x45	3.72
										25x45	3.54	30x40	3.54		
22000	223														
				25x45	3.32	30x35	2.29					30x45	4.04	35 x 35	3.64
														30x50	4.71
														35x40	4.69
														35x50	4.92

μF	DxL	50V (1H0)				63V (1J)				100V (2A)					
		22	25	30	35	22	25	30	35	22	25	30	35		
1200	122					22x25	1.19			22x35	1.55	25x30	0.50	30x25	1.68
1500	152									22x40	1.78	25x35	1.80	30x25	1.76
1800	182	22x25	1.33			22x25	1.30	25x25	1.52	22x45	1.99	25x35	1.95	30x30	2.24
						22x30	1.51					35 25	2		
2200	222	22x25	1.48			22x35	1.73	25x25	1.55	22x50	2.21	25x40	2.15	30x30	2.12
								25x30	1.74			30x30	2.12	35x25	2.27
2700	272	22x30	1.69	25x25	1.70					22x40	1.97	25x35	1.99	30x25	1.76
														25x50	2.59
3300	323	22x35	1.93	25x35	1.85					22x50	2.29	25x40	2.27	30x25	2.00
												35x25	2.06		
3900	392													30x40	2.77
														35x35	2.99
4700	472	22x40	2.16	25x35	2.18	30x25	1.95			25x45	2.54	30x25	2.18		
														30x45	3.02
4700	472													30x35	2.55
														35x40	3.35
4700	472	22x45	2.43			30x30	2.25	35x25	2.48	25x50	2.86	30x30	2.48	35x30	2.79
														35x40	3.30
5600	562													30x40	2.86
														35x45	3.51
5600	562	22x50	2.75	25x40	2.70	30x35	2.76							30x35	2.78
														35x35	3.19
6800	682			25x50	3.30	30x40	3.30	35x30	3.25					30x45	3.65
														35x40	3.64
8200	822					30x45	3.60	35x35	3.55					35x46	3.90
														35x50	4.00
10000	103					30x50	4.04	35x40	4.03						
12000	123							35x45	4.55						



CAIC SERIES: Snap-in Terminal Type, 105°C

DIMENSIONS & PERMISSABLE RIPPLE CURRENT

Dimension: ΦDxL (mm): Ripple Current: A/RMS at 120Hz, 105°C

μF	V.D.C. DxL	160V (2C)				200V (2D)				250V (2E)													
		22	25	30	35	22	25	30	35	22	25	30	35										
180	181					22 x 25	0.80				22 x 30	0.85	25 x 25	0.85									
											22 x 25	0.78											
220	221					22 x 25	0.89				22 x 30	0.82	25 x 25	0.90	30 x 25	1							
											22 x 35	0.90	25 x 30	1.00									
270	271	22 x 25	0.86					22 x 30	1.00				22 x 40	1.14									
								22 x 25	0.87	25 x 25	1.00			22 x 35	1.00								
330	331	22 x 30	1.20					22 x 35	1.20	25 x 30	1.21		22 x 45	1.26	25 x 35	1.20	30 x 30	1.13					
		22 x 25	1.10					22 x 30	1.13	25 x 25	1.13		22 x 40	1.10	25 x 30	1.13							
390	391	22 x 35	1.30					22 x 40	1.31				22 x 50	1.49	25 x 40	1.49							
		22 x 30	1.22	25 x 25	1.15			22 x 35	1.25		30 x 25	1.20		22 x 45	1.25	25 x 35	1.27						
470	471	22 x 40	1.40	25 x 30	1.41			22 x 45	1.40	25 x 35	1.41	30 x 25	1.50	22 x 50	1.57	25 x 45	1.57	30 x 35	1.57	35 x 30	1.30		
		22 x 35	1.35	25 x 25	1.33			22 x 40	1.32	25 x 30	1.32				25 x 40	1.38	30 x 30	1.37					
560	561	22 x 40	1.50	25 x 35	1.51			22 x 50	1.56	25 x 40	1.53	30 x 30	1.52			25 x 45	1.79	30 x 40	1.79	35 x 30	1.79		
				25 x 30	1.45	30 x 25	1.40		22 x 45	1.53	25 x 35	1.50											
680	681	22 x 50	1.71	25 x 40	1.70	30 x 30	1.72		22 x 50	1.74	25 x 45	1.74	30 x 35	1.73	35 x 30	1.73		25 x 50	1.84	30 x 40	2.00		
		22 x 45	1.65	25 x 35	1.65	30 x 25	1.65				25 x 40	1.70			35 x 25	1.72					35 x 35	1.58	
820	821	22 x 50	1.93	25 x 45	2.01	30 x 35	2.00	35 x 30	2.00		25 x 50	2.04	30 x 40	1.93	35 x 35	1.93				30 x 50	2.16	35 x 40	1.81
				25 x 40	1.85	30 x 30	1.76	35 x 25	1.91												30 x 50	1.85	
1000	102			25 x 45	2.20	30 x 40	2.22	35 x 35	2.20	22 x 50	2.30		30 x 50	2.30	35 x 40	2.30						35 x 45	2.00
						30 x 35	2.02	35 x 30	2.44				30 x 45	2.20	35 x 35	2.20							
1200	122			25 x 50	2.45	30 x 45	2.44	35 x 35	2.50				30 x 50	2.60	35 x 40	2.65						35 x 45	3.41
						30 x 40	2.35																
1500	152					30 x 45		35 x 40	2.70					35 x 45	2.58								
														35 x 50	2.80								
1800	182				30 x 50	3.31	35 x 50	3.10					35 x 50	3.47									

μF	V.D.C. DxL	350 (2V)				400V (2G)				450V (2W)													
		22	25	30	35	22	25	30	35	22	25	30	35										
82	820	22 x 25	0.56				22 x 25	0.45				22 x 25	0.45										
100	101	22 x 25	0.58				22 x 25	0.51				22 x 30	0.53	25 x 25	0.51								
120	121	22 x 30	0.69				22 x 30	0.62	25 x 25	0.61		22 x 35	0.62										
150	151	22 x 35	0.80				22 x 35	0.70	25 x 30	0.73		22 x 40	0.74	25 x 30	0.70					35 x 25	0.83		
180	181			25 x 30	0.92	30 x 25	0.85		28 x 40	0.81	25 x 35	0.85	30 x 25	0.83		22 x 45	0.88	25 x 35	0.82	30 x 25	0.80		
220	221	22 x 40	0.95	25 x 40	1.04	30 x 30	1.02	35 x 25	1.04	22 x 45	0.94	25 x 40	1.00	30 x 30	0.99			25 x 40	0.96	30 x 30	0.95		
270	271			25 x 45	1.17	30 x 35	1.17	35 x 25	1.12	22 x 55	1.14	25 x 45	1.17	30 x 35	1.16	35 x 25	1.08		25 x 50	1.21	30 x 35	1.12	
330	331			25 x 50	1.20	30 x 35	1.12	35 x 30	1.21			25 x 50	1.30	30 x 40	1.36			25 x 55	1.35	30 x 40	1.31	35 x 30	1.27
390	391					30 x 40	1.29							35 x 30	1.44					30 x 45	1.49	35 x 35	1.47
470	471					30 x 45	1.48	35 x 40	1.63			30 x 50	1.72	35 x 40	1.78					30 x 55	1.79	35 x 40	1.71
560	561							35 x 40	1.69				30 x 55	1.95	35 x 40	1.86						35 x 45	1.96