

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



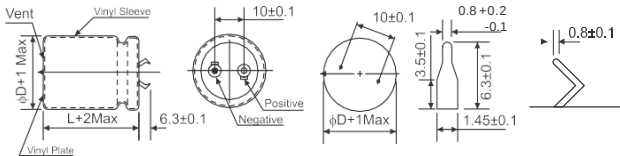
FEATURES

- ◆ 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.

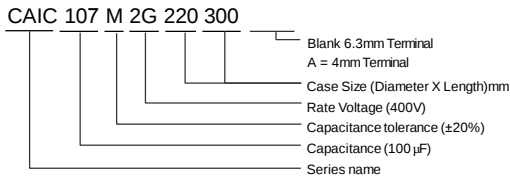
SPECIFICATIONS

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 2minutes) Where, C = rated capacitance in μF, V=rated DC working voltage in V.														
Dissipaton 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*	0.10*	0.15*	0.15	0.15		
	0.15 for D = 35mm														
Low Temperature Characteristics (at 120Hz)	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	
		Z(-40°C)/Z(=20°C)	15	10	8	6	6	5	4	8	10	16	18	20	
	Impedance ratio shall not exceed the vaues given in the table above														
Load Life Test (after application of the rated voltage at 85°C/105°C, the polarity inverted every 250 hours.	Test Time		2000 Hrs												
	Capacitance Change		Within ± 20% of initial value												
	Dissipation Factor		Less than 200% of specifice value												
	Leakage Current		Within specified values												
	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														
Shelf Life Test	Test Time		1000 Hrs												
	Capacitance Change		Within ± 20% of initial value												
	Dissipation Factor		Less than 200% of specifice 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) \ W.V.(V)	60	120	500	1K	10K up									
		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 SERIES: Snap-in Terminal Type, 105°C

DIMENSIONS & PERMISSABLE RIPPLE CURRENT

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

V.D.C.		16V (1C)								25V (1E)								35V (1V)							
μF	DxL	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
4700	478									22x25	1.50								25x25	1.80					
5600	568									22x25	1.72							22 x 35	1.95	25x60	1.96	30x25	2		
6800	688	22x25	1.57							22x30	1.86	25x25	1.87					22 x 40	2.20	25x35	2.23				
8200	828	22x25	1.94							22x35	2.11	25x30	2.12	30x25	2.15			22 x 50	2.55	25x40	2.53	30x30	2.75	35x25	2.75
10000	109	22x30	1.94	25x30	2.12					22x40	2.39	25x35	2.42						25x45	2.87	30x35	2.90			
12000	129	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	30x40	3.23	35x25	2.69	
																							35x30	2.99	
15000	159	22x40	2.55	25x35	2.58						25x45	3.15	30x35	3.13	35 x 30	3.27					30x45	3.72	35x25	3.12	
																							35x35	3.67	
18000	189	22x45	2.87	25x40	2.92	30x30	2.88	35 x 25	2.92		25x50	3.54	30x40	3.54									35x35	4.02	
																							35x40	4.37	
22000	229		25x45	3.32	30x35	2.29							30x45	4.04	35 x 35	3.64					30x50	4.71	35x40	4.69	
																							35x50	4.92	

V.D.C.		50V (1H)								63V (1J)								100V (2A)							
μF	DxL	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
1200	128									22x25	1.19							22x35	1.55	25x30	0.50	30x25	1.68		
1500	158																	22x40	1.78	25x35	1.80	30x25	1.76	35x25	1.98
1800	188	22x25	1.33							22x25	1.30	25x25	1.52					22x45	1.99	25x35	1.95	30x30	2.24	35 25	2
										22x30	1.51														
2200	228	22x25	1.48							22x35	1.73	25x25	1.55					22x50	2.21	25x40	2.15	30x30	2.12	35x25	2.27
											25x30	1.74													
2700	278	22x30	1.69	25x25	1.70					22x40	1.97	25x35	1.99	30x25	1.76				25x50	2.59	30x35	2.37	35x20	2.62	
3300	328	22x35	1.93	25x35	1.85					22x50	2.29	25x40	2.27	30x25	2.00	35x25	2.06					30x40	2.77	35x35	2.99
														30x30	2.24										
3900	398	22x40	2.16	25x35	2.18	30x25	1.95				25x45	2.54	30x25	2.18								30x45	3.02	35x40	3.35
														30x35	2.55										
4700	478	22x45	2.43		30x30	2.25	35x25	2.48			25x50	2.86	30x30	2.48	35x30	2.79								35x40	3.30
														30x40	2.86										
5600	568	22x50	2.75	25x40	2.70	30x35	2.76						30x35	2.78	35x35	3.19								35x45	3.51
														30x45	3.22										
6800	688		25x50	3.30	30x40	3.30	35x30	3.25					30x50	3.65	35x40	3.64									
8200	828				30x45	3.60	35x35	3.55							35x46	3.90									
10000	109				30x50	4.04	35x40	4.03							35x50	4.00									
12000	129						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

V.D.C.		160V (2C)								200V (2D)								250V (2E)							
μF	DxL	22		25		30		35		22		25		30		35		22		25		30		35	
180	187									22 x 25	0.80							22 x 30	0.85	25 x 25	0.85				
																		22 x 25	0.78						
220	227									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	277	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	337	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	397	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	477	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	567	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	687	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	827	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	108			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	128			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	158					30 x 45		35 x 40	2.70							35 x 45	2.58								
																35 x 50	2.80								
1800	188					30 x 50	3.31	35 x 50	3.10							35 x 50	3.47								

V.D.C.		350 (2V)								400V (2G)								450V (2W)							
μF	DxL	22		25		30		35		22		25		30		35		22		25		30		35	
82	826	22 x 25	0.56							22 x 25	0.45							22 x 25	0.45						
100	107	22 x 25	0.58							22 x 25	0.51							22 x 30	0.53	25 x 25	0.51				
120	127	22 x 30	0.69							22 x 30	0.62	25 x 25	0.61					22 x 35	0.62						
150	157	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	187			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	227	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	277			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	337			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	397					30 x 40	1.29									35 x 30	1.44					30 x 45	1.49	35 x 35	1.47
470	477					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	567							35 x 40	1.69					30 x 55	1.95	35 x 40	1.86							35 x 45	1.96